# Compliance Tracking & Environmental Audit Program

WestConnex M4-M5 Link Mainline Tunnels







#### **Document control**

## Approval and authorisation

Title	M4-M5 Link Mainline Tunnels Compliance Tracking and Environmental Audit Program
Document No/Ref	M4M5-LSBJ-PRW-EN-GE01-PRG-0001-04

#### **Version control**

Revision	Date	Description
Α	12 June 2018	Draft for internal review
В	21 June 2018	Draft for SMC/RMS/ER review
С	18 July 2018	Final draft following comments
01	24 July 2018	For DPE lodgement
02	10 October 2018	For project website
03	17 October 2018	Minor amendment – for project website
04	9 July 2020	Reword to align with CEMP, update regulator name changes, reference blasting.

#### Internal review



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# Abbreviations/Glossary

Abbreviation	Expanded text
AA	Acoustic Advisor
AS	Australian Standard
CEMP	Construction Environmental Management Plan
CSSI	Critical State Significant Infrastructure
CoA	Conditions of Approval
CTEAP	Compliance Tracking and Environmental Audit Program
DPIE	Department of Planning, Industry and Environment
EIN	Environmental Improvement Notice
EIS	Environmental Impact Statement
E&SM	Environment and Sustainability Manager
EMS	Environmental Management System
EPA	NSW Environment Protection Authority
EP&A Act	Environmental Planning and Assessment Act 1979 (NSW)
EPL	Environmental Protection Licence
ER	Environmental Representative
E&SM	Environment and Sustainability Manager
EWMS	Environmental Work Method Statement
GMR	Lendlease Global Minimum Requirement
ISCA	Infrastructure Sustainability Council of Australia
ISO	International Organisation for Standards
LSBJV	Lendlease Samsung Bouygues Joint Venture
NSW	New South Wales
NZS	New Zealand Standard
PCCR	Pre-Construction Compliance Report
POEO	Protection of the Environment Operations Act 1997 (NSW)
REMM	Revised Environmental Management Measure as outlined in the Project SPIR
Roads and Maritime, RMS	Roads and Maritime Services
SEMP	Site Establishment Management Plan
SMC	Sydney Motorway Corporation
SPIR	Submissions and Preferred Infrastructure Report
TfNSW	Transport for NSW (formerly known as Roads and Maritime Services)
WCX	WestConnex (formerly known as Sydney Motorway Corporation)

#### 1 Introduction

#### 1.1 Project Background

WestConnex is one of the NSW Government's key infrastructure projects which aims to ease congestion, create jobs and connect communities. The 33-kilometre WestConnex motorway will link Sydney's west and south-west with the Sydney Central Business District, Sydney Airport and Port Botany. WestConnex is one component of an integrated solution to meet Sydney's growing transport and infrastructure needs and is consistent with NSW Government transport and planning policies and strategies.

The Proponent for the project was Roads and Maritime Services (Roads and Maritime) who commissioned the WestConnex Transurban to deliver WestConnex. On 1 December 2019 Roads and Maritime were dissolved, with all Roads and Maritime's functions, assets, rights and liabilities being transferred to Transport for NSW (TfNSW). TfNSW are now considered the Proponent.

The WestConnex M4-M5 Link project will be constructed and opened to traffic in two stages:

- Stage 1: M4-M5 Link Mainline tunnels
- Stage 2: Rozelle interchange.

WestConnex Transurban has engaged the Lendlease Samsung Bouygues Joint Venture (LSBJV) to design and construct Stage 1 of the M4-M5 Link project (the Project). The WestConnex M4-M5 Link Mainline Tunnels project will deliver twin mainline motorway tunnels between the New M4 at Haberfield and the New M5 at St Peters. Each tunnel would be around 7.5 kilometres long and would generally accommodate up to four lanes of traffic in each direction

The project was declared by Ministerial Order to be State Significant Infrastructure (SSI) and Critical State Significant Infrastructure (CSSI), under Section 5.12 (4) and Section 5.13 (previously referred to as 115U(4) and 115V prior to amendment of the *Environmental Planning and Assessment Act 1979* (EP&A Act)) as well as under clause 16 of the State Environmental Planning Policy (State and Regional Development) 2011. The project remains subject to assessment under the EP&A Act and requires the approval of the NSW Minister for Planning. The proposal is critical State significant infrastructure by virtue of Schedule 5, clause 4 of State Environmental Planning Policy (State and Regional Development) 2011.

An Environmental Impact Statement (EIS) (AECOM 2017) was prepared and placed on public exhibition from 18 August 2017 to 16 October 2017. Submissions were received from government, agencies, organisations and the public in repose to the project. A Submissions and Preferred Infrastructure Report (SPIR) was prepared by Roads and Maritime (now TfNSW) in response to submissions received during the exhibition period. The Project was approved by the Minister for Planning on 17 April 2018. A Project Modification report (AECOM 2018) was prepared and placed on public exhibition for 14 days from 12 September 2018. The Project Modification was determined by the Minister for Planning on 25 February 2019.

#### 1.2 Purpose

This Compliance Tracking and Environmental Audit Program (CTEAP) has been prepared in accordance with CoA A27 and A36 to address the Project requirements contained in the CoA and the Revised Environmental Management Measures (REMM) provided in the Submissions and Preferred Infrastructure Report (SPIR).

#### 1.3 Objectives and Criteria

The following objectives have been established to direct the planning and conduct of compliance tracking and audits, and to ensure this CTEAP is implemented effectively:

- To monitor compliance with the CoA, REMMs and ISO 19011:2014 Guidelines for Auditing Management Systems (ISO 19011:2014) for the duration of the works for the Project and for at least one year following commencement of operation in 2023 in accordance with CoA A29 and CoA A37
- To improve the Project personnel's awareness and understanding of the requirements in legislation and the relevant standards relating to compliance tracking and auditing
- To monitor the level of performance year-to-year, as reflected in the occurrence of incidents or customer complaints
- To contribute to the improvements of the Construction Environmental Management System and its performance.

The criteria of this Program is to fulfil the objectives and achieve compliance with the CoA, REMMs while taking into consideration relevant legislative and standard requirements.

Objectives and criteria of individual audits will be determined at the time of the audit, along with the methods for effectively conducting the audit, depending on the defined audit objectives, scope and criteria.

Refer to Section 2.1 for further details on the staging of the Project.

#### 1.4 Conditions of Approval requirements

This CTEAP report is required to ensure compliance with the Project CoA listed in Table 1-1.

Table 1-1 CoA requirements for this CTEAP

CoA no.	Requirement	Reference
A27	A Compliance Tracking Program to monitor compliance with the terms of this approval must be prepared, taking into consideration any staging of the CSSI that is proposed in a Staging Report submitted in accordance with Conditions A12 and A13 of this approval.	This document
A28	The Compliance Tracking Program must be endorsed by the ER and then submitted to the Secretary for information at least one (1) month prior to the commencement of works.	Section 1.6 and Appendix A
A29	The Compliance Tracking Program in the form required under Condition A28 of this approval must be implemented for the duration of works and for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Secretary based on the outcomes of independent environmental audits, Environmental Representative Monthly Reports and regular compliance reviews submitted through Compliance Reports. If staged operation is proposed, or operation is commenced of part of the CSSI, the Compliance Tracking Program must be implemented for the relevant period for each stage or part of the CSSI.	Section 1.3 and Section 2.1

CoA no.	Requirement	Reference
A36	An Environmental Audit Program for annual independent environmental auditing against the terms of this approval must be prepared in accordance with AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems and submitted to the Secretary for information no later than one (1) month prior to the commencement of construction.	This document
A37	The Environmental Audit Program, as submitted to the Secretary, must be implemented and complied with for the duration of construction and operation.	This document
A38	All independent environmental audits of the CSSI must be conducted by a suitably qualified, experienced and independent team of experts in auditing and be documented in an Environmental Audit Report which:	Section 4.1.2
	<ul><li>(a) assesses the environmental performance of the CSSI, and its effects on the surrounding environment;</li></ul>	
	<ul><li>(b) assesses whether the project is complying with the terms of this approval; and</li></ul>	
	recommends measures or actions to improve the environmental performance of the CSSI.	
A39	The Proponent must submit a copy of the Environmental Audit Report to the Secretary for information, with a response to any recommendations contained in the audit report within six (6) weeks of completing the audit.	Section 5.1

## 1.5 Environmental Audit Program requirements

This CTEAP report is required to ensure compliance with CoA A36, and thus be prepared in accordance with ISO 19011:2014. Table **1-2** lists the guideline requirements and where they have been addressed in the CTEAP.

Table 1-2 AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems and the requirements for this CTEAP

No.	Requirement	Reference
5.1	General:  An organisation needing to conduct audits should establish an audit program that contributes to the determination of the effectiveness of the auditee's management system. This will involve:	This CTEAP
5.2	Establishing the audit program objectives:  Audit program objectives should be established to direct the planning and conduct of audits and should ensure the audit program is implemented effectively.	Section 1.3

No.	Requirement	Reference
5.3.1	Roles and responsibilities of the person managing the audit program:	Section 2.5
	The person managing the audit program should:	
	<ul> <li>Establish the extent of the audit program</li> </ul>	
	<ul> <li>Identify and evaluate the risks for the audit program</li> </ul>	
	Establish audit responsibilities	
	<ul> <li>Establish procedures for audit program</li> </ul>	
	Determine necessary resources	
	<ul> <li>Ensure the implementation of the audit program, including the establishment of audit objectives, scope and criteria for the individual audits, determining audit methods and selecting the audit team and evaluating auditors</li> </ul>	
	<ul> <li>Ensure that appropriate audit program records are managed and maintained</li> </ul>	
	Monitor, review and improve the audit program.	
5.3.2	Competence of the person managing the audit program:	Section 2.5
	The person managing the audit program should have the necessary competence to manage the program and its associated risks effectively and efficiently, as well as knowledge and skills in the following areas:	Section 2.6
	<ul> <li>Audit principles, procedures and methods</li> </ul>	
	<ul> <li>Management system standards and reference documents</li> </ul>	
	<ul> <li>Activities, products and processes of the auditee</li> </ul>	
	<ul> <li>Applicable legal and other requirements relevant to the activities and products of the auditee</li> </ul>	
	<ul> <li>Customers, suppliers and other interested parties of the auditee, where applicable.</li> </ul>	
5.3.3	Establishing the extent of the audit program:	Section 3.3
	The person managing the audit program should determine the extent of the audit program, which can vary depending on the size and nature of the auditee, as well as on the nature, functionality, complexity and the level of maturity of, and matters of significance to, the management system to be audited.	
5.3.4	Identifying and evaluating audit program risks	Section 4.4
	There are many different risks associated with establishing, implementing, monitoring, reviewing and improving an audit program that may affect the achievement of its objectives. The person managing the program should consider these risks in its development.	
5.3.5	Establishing procedures for the audit program	
	The person managing the audit program should establish one or more procedures, addressing the following if applicable:	

No.	Requirement	Reference
	Planning and scheduling audits considering audit program risks	Section 4
	Ensuring information security and confidentiality	Section 0
	Assuring the competence of auditors and audit team leaders	Section 2.6
	Selecting appropriate audit teams and assigning their roles and responsibilities	Section 2.6
	Conducting audits, including the use of appropriate sampling methods	Section 3.3
	Conducting audit follow-up, if applicable	Section 3.3
	Reporting to the top management on the overall achievement of the audit program	Section 3.3
	Maintain audit program records	Section 3.3 Section 0
	Monitoring and reviewing the performance and risks and improving the effectiveness of the audit program.	Section 3.3 Section 5.4
5.3.6	Identifying audit program resources	Section 2.4
	When identifying resources for the audit program, the person managing the audit program should consider:	
	The financial resources necessary to develop, implement, manage and improve audit activities	
	Audit methods	
	<ul> <li>The availability of auditors and technical experts having competence appropriate to the particular audit program objectives</li> </ul>	
	The extent of the audit program and audit program risks	
	Travelling time and cost, accommodation and other auditing needs	
	The availability of information and communication technologies.	

No.	Requirement	Reference
5.4.1	General:	Section 2.5
	The person managing the audit program should implement the audit program by means of the following:	
	<ul> <li>Communicating the pertinent parts of the audit program to relevant parties and informing them periodically of its progress</li> </ul>	
	Defining objectives, scope and criteria of each individual audit	
	<ul> <li>Coordinating and scheduling audits and other activities relevant to the audit program</li> </ul>	
	<ul> <li>Ensuring the selection of audit teams with the necessary competence</li> </ul>	
	Providing necessary resources to the audit teams	
	Ensuring the conduct of audits in accordance with the audit program and within the agreed time frame	
	<ul> <li>Ensuring that audit activities are recorded and records are properly managed and maintained.</li> </ul>	
5.4.2	Defining the objectives, scope and criteria for an individual audit	Section 1.3
5.4.3	Selecting the audit methods:	Section 1.3
	The person managing the audit program should select and determine the methods for effectively conducting an audit, depending on the defined audit objectives, scope and criteria.	
5.4.4	Selecting the audit team members	Section 2.6
	The person managing the audit programme should appoint the members of the audit team, including the team leader and any technical experts needed for the specific audit.	
5.4.5	Assigning responsibility for an individual audit to the audit team leader	Section 2.6
5.4.6	Managing the audit program outcome	Section 2.6
	The person managing the audit programme should assign the responsibility for conducting the individual audit to an audit team leader.	
5.4.7	Managing and maintaining audit program records	Section 0
	The person managing the audit programme should ensure that audit records are created, managed and maintained to demonstrate the implementation of the audit programme. Processes should be established to ensure that any confidentiality needs associated with the audit records are addressed.	
5.5	Monitoring the audit program	Section 2.5
	The person managing the audit program should monitor its implementation.	

No.	Requirement	Reference
5.6	Reviewing and improving the audit program:	Section 2.5
	The person managing the audit program should review the audit program to assist whether its objectives have been achieved. Lessons learned from the audit program review should be used as inputs for the continual improvement process for the program.	

#### 1.6 Environmental Representative Endorsement

In accordance with CoA A17, an Environmental Representative (ER) has been engaged for the duration of works on the Project. In addition, the ER is required to endorse this CTEAP prior to submission to the Secretary of the NSW Department of Planning, Industry and Environment (DPIE), in accordance with CoA A28.

The ER has reviewed and commented on this report. **Appendix 1** provides the ER endorsement of this CTEAP report.

## 2 Project Delivery

#### 2.1 Staging

As detailed by the Draft Staging Report prepared by TfNSW, the WestConnex M4-M5 Link project is being constructed in two stages:

- Stage 1 (the Project): M4-M5 Link Mainline Tunnels
- Stage 2: Rozelle Interchange and Iron Cove Link

WCX has engaged Lendlease Samsung Bouygues Joint Venture (LSBJV) to design and construct Stage 1 of the Project. The key objective of this CTEAP is to track compliance with the requirements of the CoA relevant to Stage 1 of the Project during the construction and early stages of operation.

The LSBJV, TfNSW and Westconnex Transurban together are responsible for compliance with the requirements of the CoA. However, LSBJV will be responsible for maintaining the CTEAP for the Project and for the preparation of the periodic compliance tracking reports throughout construction as required by CoA A29 and CoA A37.

#### 2.2 Timing

Construction on the Project will begin late 2018 and continue until Q4 of 2023:

- Site establishment to commence late 2018
- Tunnel construction to commence Q4 2018
- Mechanical and electrical fitout work to commence Q2 2021
- Testing and commissioning to commence Q4 2022.

#### 2.3 Pre-Construction Works

Some works will be delivered prior to the commencement of construction on the Project (refer to Section 2.1), in accordance with the definition of 'construction' in the Project Instrument of Approval. Required approvals will be undertaken prior to commencing pre-construction works.

#### 2.4 Resources

Resource needs that have been considered in preparation of this CTEAP include:

- The financial resources necessary to develop, implement, manage and improve audit activities
- Audit methods
- The availability of auditors and technical experts having competence appropriate to the particular audit program objectives
- The extent of the audit program and audit program risks
- Travelling time and cost, accommodation and other auditing needs
- The availability of information and communication technologies.

#### 2.5 Key roles and responsibilities

The Project will have the following key environmental roles with regards to this CTEAP:

- Contractor's Environment and Sustainability Manager (E&SM) This role represents the LSBJV and is responsible for all aspects of environmental management, including managing the implementation of the CTEAP. This person will have the necessary competence to manage the program and its associated risks effectively and efficiently, and will (as part of this CTEAP):
  - Establish the extent of the audit program
  - Identify and evaluate the risks for the audit program
  - Establish audit responsibilities
  - Establish procedures for audit program
  - Determine necessary resources
  - Ensure the implementation of the audit program, including the establishment of audit objectives, scope and criteria for the individual audits, determining audit methods and selecting the audit team and evaluating auditors
  - Ensure that appropriate audit program records are managed and maintained
  - Monitor, review and improve the audit program.

As the responsible role for the implementation of the CTEAP, the E&SM will ensure the following:

- Communicating the pertinent parts of the audit program to relevant parties and informing them periodically of its progress
- Defining objectives, scope and criteria of each individual audit
- Coordinating and scheduling audits and other activities relevant to the audit program
- Ensuring the selection of audit teams with the necessary competence
- Providing necessary resources to the audit teams
- Ensuring the conduct of audits in accordance with the audit program and within the agreed time frame
- Ensuring that audit activities are recorded and records are properly managed and maintained
- Monitoring the implementation of the audit program
- Reviewing and improving the audit program, to determine if the objectives have been achieved, and utilise Lessons Learned for continual improvement of the CTEAP.
- ER This role represents the Secretary of the NSW DPIE and is a requirement of CoA A17. The ER acts as the Secretary's independent point of contact for all compliance matters. Refer to CoA A21 and the DPE Environmental Representative Protocol (October 2017) for a comprehensive list of the ER's responsibilities.
- Acoustic Advisor (AA) This role represents the Secretary of the NSW DPIE and is a
  requirement of CoA A24. The AA acts as the Secretary's point of contact for all noise and
  vibration matters. Refer to CoA A25 and CoA A26 for a comprehensive description of the
  AA's responsibilities.

In accordance with the Instrument of Approval, the ER and AA are to work in conjunction with each other on all matters relating to:

Review and approval of Out of Hours works

- Noise and vibration audits
- Community conflict resolutions regarding noise and vibration issues
- Consideration of minor amendments to Construction Environmental Management Plan (CEMP), relevant Sub-plans and the Noise and Vibration Monitoring Program
- Assessment of minor ancillary facility noise impacts
- Submission of monthly Noise and Vibration Reports to the Secretary.
- Independent Auditor(s) (IA) Independent auditors will be engaged to assess compliance with the CoA as required. The IA must have knowledge and skills in the following areas:
  - Audit principles, procedures and methods
  - Management system standards and reference documents
  - Activities, products and processes of the auditee
  - Applicable legal and other requirements relevant to the activities and products of the auditee
  - Customers, suppliers and other interested parties of the auditee, where applicable.

#### 2.6 Audit Teams

As per the ISO 19011:2014 requirements, the auditor is responsible for appointing members of the audit team, including the team leader and any technical experts needed for the specific audit. The selection process will take into account competence needed to achieve the objectives of the individual audit within the defined scope. Some factors to consider when selecting the audit team include, but are not limited to:

- The overall competence of the team members
- Complexity of the audit
- Audit procedures and methods
- · Legal and contractual requirements
- Independence of the audit team
- Communication and interaction capabilities of the team
- Social and cultural characteristics of the auditee.

If all the necessary competence is not covered by the auditors in the audit team, technical experts with additional competence should be included in the team. They will operate under the direction of the auditor, but should not act as auditors.

The auditor will assign the responsibility of conducting the individual audit to an audit team leader. The team leader will be provided with adequate information about audit objectives, criteria, scope, reference documents, audit procedures / methods, composition of the audit team, availability of resources and all other relevant details required to undertake the audit.

## 3 Compliance Management

#### 3.1 Construction Environmental Management System

The environmental management system (EMS) is the primary system to manage and control the environmental aspects of the Project during early works, site establishment and construction. It also provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative requirements are fulfilled.

The LSBJV EMS is based on the Lendlease Engineering ISO14001 Certified EMS, which was adapted to address Project requirements and joint venture requirements.

The CEMP is the primary system to manage and control the environmental aspects of the Project during construction. It also 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 CTEAP is separate to the CEMP, but is part of a suite of environmental management documents prepared for the Project. The CTEAP will be administered by the Environment and Sustainability Manager or delegate for the duration of the Project

#### 3.2 Legislative Compliance

The Project is subject to legislative environmental compliance requirements relating to the:

- Environmental Planning and Assessment Act 1979: planning approval granted by the Minister for Planning on 17 April 2018 (SSI application number SSI 7485)
- Protection of the Environment Operations Act 1997: Environment Protection Licence (EPL)
  will be required during the construction of the Project. This EPL will be held by LSBJV and
  applicable to its scope of works.

The Project Instrument of Approval requirements are comprised of:

- 310 CoA issued by the Minister of the NSW DPIE
- 257 REMM as committed to in Part E.1 of the Submissions and Preferred Infrastructure Report.

It should be noted that, as identified in the Draft Staging Report WestConnex M4-M5 Link (June 2018) prepared by TfNSW, not all of these CoA and REMM are relevant to the Project.

#### 3.3 Scope of the CTEAP

The CTEAP is prepared in accordance with CoA A27 and CoA A36 and is required to address the Project requirements contained in the CoA and the REMM provided in the SPIR. The Project must demonstrate continuous compliance with all associated requirements.

The CTEAP will be implemented in accordance with ISO 19011:2014 and will include, but not be limited to, the following procedures:

- Planning and scheduling audits considering audit program risks
- Ensuring information security and confidentiality
- Assuring the competence of auditors and audit team leaders

- Selecting appropriate audit teams and assigning their roles and responsibilities
- Conducting audits, including the use of appropriate sampling methods
- Conducting audit follow-up, if applicable
- Reporting to the top management on the overall achievements of the audit programme
- Maintaining audit programme records
- Monitoring and reviewing the performance and risks and improving the effectiveness of the audit program.

#### 3.4 Environmental Surveillance and Review

A range of environmental surveillance and review activities will be undertaken to ensure compliance with the CoA and REMM, as summarised in Table 3-1.

Table 3-1 Compliance monitoring and review activities

Activity	Frequency
Ongoing environmental site surveillance	Daily
Environmental inspections including review of environmental controls and actions	Weekly formal inspections
Environmental performance and compliance reporting	As part of project monthly report
Environmental risk assessment review	Annual
Review of CoA non-compliances	Six-monthly Construction Compliance Reports
Environmental management reviews	Annual CEMP reviews

Regular compliance activities, such as inspections, observations and monitoring will be undertaken in accordance with the CEMP.

Environmental controls are to be inspected regularly to ensure their ongoing suitability and effectiveness. Environmental monitoring is carried out to establish pre-construction benchmarks, confirm compliance with the conditions of environmental approvals, licences and laws and to provide early indication of potential adverse impacts to the environment or community.

Formal periodic review of the suite of CoA will be undertaken six monthly as identified in CoA A33. The review will be led by the Project Environment and Sustainability Manager with input from other disciplines including community engagement, design and construction.

The first review will be undertaken prior to the commencement of construction, with the second review undertaken within the first six months of construction and then every six months after. A review will also be undertaken prior to the commencement of operation.

## 4 Auditing

#### 4.1 External Environmental Auditing

There are four categories of external audit to be undertaken throughout the construction of the Project. These are summarised along with the external audit schedule in Table 4-1, with further detail provided below.

#### 4.1.1 LSBJV EMS Audit or GMR Audit

An appropriately qualified and experienced Lendlease auditor will audit against EMS compliance/GMR requirements. LSBJV will be given at least five days' notice of the impending audit and will be advised of the scope. Results of these audits will be communicated to the Project Director and the Environmental & Sustainability Manager, before being distributed to the broader Project Team.

Actions arising from external environmental compliance audits will be implemented by the Environmental & Sustainability Manager and non-conformances will be reported and closed out internally. Closed audit reports are to be retained on the Project document control system.

. Actions raised in audits are to be closed in a "timeframe agreed with the auditee.

#### 4.1.2 Independent Environmental Compliance Audit

In accordance with CoA A36, LSBJV will arrange independent environmental compliance audits which, over the duration of the project, will cover compliance with the Deed, ISO 14001:2004, all aspects of the CEMP and the requirement of the Environmental Documents.

In accordance with CoA A39, audit results will be communicated to the Project Director and LSBJV Environmental & Sustainability Manager, before being distributed to WCX, TFNSW, ER and DPIE in accordance with CoA A33. Significant findings will also be communicated to relevant parties through toolbox talks and other internal communication methods as required.

Actions arising from the audit will be implemented by the Environmental & Sustainability Manager; non-conformances will be reported in the Compliance Tracking Reports. Closed audit reports are to be retained on the Project document control system.

#### 4.1.3 Regulator External Audits

In accordance with CoA A21 the Project ER may be requested by the Secretary to help plan, attend or undertake audits of the Project, as commissioned by the Department, including scoping audits, programming audits, briefings and site visits. This authority does not include independent environmental audits required under Condition A36.

As per CoA A26 (g)(i) in conjunction with this ER audit, the AA must, as may be requested by the Secretary or Community Complaints Mediator, help plan, attend or undertake audits of noise and vibration management of the Project including briefings, and site visits.

In such cases, the Project will assist by providing the ER and AA with all documentation requested in order for the ER to perform this function.

#### 4.1.4 External Sustainability Audits

The Project has committed to the ISCA sustainability award system, which requires external auditing. These audits must be completed at least once per year during construction by a suitably qualified person (i.e. in accordance to ISO19011) who is not part of the project or asset team, but may be from a parent company, a client, or a third party. The external audits must cover material environmental, social and economic issues over the duration of the Project.

Further detail can be found in the Project Sustainability Management Plan.

Table 4-1 Indicative external audit schedule

Audit	Details	Timing	Responsibility	Recipient of audit report	Source of requirement
External audit	LSBJV EMS or GMR	Within 12 months of works commencing and then annually	External auditor	LSBJV	LSBJV internal requirements.
Independent External audit	Environmental Compliance	Within 6 months of commencement of works and then annually.	Independent external auditor	DPIE; WCX; LSBJV	CoA A36
Regulator External Audit	Environmental Compliance	As requested by the Secretary	ER	WCX; LSBJV; DPIE	CoA A21(f)
	Noise & Vibration Management	As requested by the Secretary or the Community Complaints Mediator	AA	WCX; LSBJV; DPIE	CoA A26(g)(i)
External Sustainability audits under ISCA Framework	Sustainability Audits	At least annually	Sustainability Manager	ISCA as part of rating submission	ISCA requirements

### 4.2 Internal Environmental Auditing

There are two types of internal auditing, as discussed below.

#### 4.2.1 Internal Environmental Audits

The Project's internal environmental auditing will be undertaken in regular intervals throughout the construction of the Project to ensure that potential non-compliances with the Project's environmental obligations are picked up early and addressed between the relevant parties. The Project's internal audit schedule is outlined in Table 4-2.

These internal audits may include any of the following, as will be determined by the Environmental Manager:

- Compliance with internal systems or procedures
- Environmental document reviews
- Audits of specific Environmental Work Method Statements
- Early Works and Ground Disturbance Permits

#### 4.2.1 Internal Sustainability Audits

The Project has committed to the ISCA sustainability award system, which requires internal auditing, at least three times per year during construction. The auditor must be suitably qualified (i.e. according to ISO19011) and must be a member of the project or asset team. Internal audits must cover material environmental, social and economic issues across the span of the Project.

Specific requirements for the auditing and review of the following aspects also apply:

- waste audits to final destination
- night-time light pollution audits
- energy and greenhouse gas emissions reviews
- stakeholder engagement reviews
- contamination management reviews
- heritage management reviews

Further detail can be found in the Project Sustainability Management Plan.

Table 4-2 Indicative internal audit schedule

Audit	Details	Timing	Responsibility	Recipient of audit report
Internal audit	Compliance to internal Project requirements	Risk based. Initial audit within 3 months of commencing construction	Environment and Sustainability Manager	LSBJV; TfNSW, WCX
Internal audits as required by the ISCA Framework	Sustainability Audits	Approximately every four months	Sustainability Manager	ISCA as part of rating submission

#### 4.3 Additional audit requirements

Additional audit requirements identified in the CoA are summarised in Table 4-3. This includes operational audit requirements which are included here for information, however are not addressed within this document.

Table 4-3 Additional audit requirements identified in CoA

CoA Ref	Audit Details	Recipient of the audit report	Where addressed
Construc	ction phase		
E56	An independent Road Safety Audit(s) is to be undertaken by an appropriately qualified and experienced person during detailed design to assess the safety performance of new or modified local road, parking, pedestrian and cycle infrastructure provided as part of the CSSI (including ancillary facilities) to ensure that they meet the requirements of relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Management. Audit findings and recommendations must be actioned prior to construction of the relevant infrastructure and must be made available to the Secretary on request.	DPIE; WCX	Construction Traffic and Transport and Access Management Sub- plan
E60	A detailed Pedestrian and Cycle Implementation Strategy must be included as a component of the Urban Design and Landscape Plan required by Condition E133 and reviewed by the Design Review Panel. The Strategy must be prepared in consultation with relevant council(s) and Bicycle NSW. The Strategy must be consistent with the Active Transport Strategy in Volume 2F, Appendix N of the EIS and must incorporate the requirements of Conditions E58 and E59 and include:  (b) a safety audit of existing and proposed pedestrian and cycle facilities to address the above standards	DPIE; WCX, TFNSW	Urban Design and Landscape Plan

CoA Ref	Audit Details	Recipient of the audit report	Where addressed
E182	If a Site Contamination Report prepared under Condition E181 finds such land contains contamination, a site audit is required to determine the suitability of a site for a specified use. If a site audit is required, a Site Audit Statement and Site Audit Report must be prepared by a NSW EPA Accredited Site Auditor. Contaminated land must not be used for the purpose approved under the terms of this approval until a Site Audit Statement is obtained that declares the land is suitable for that purpose and any conditions on the Site Audit Statement have been complied with.	DPIE; WCX; Environmental Protection Agency (EPA)	Construction Soil and Surface Water Management Plan
Operatio	nal phase		
E22	All sampling points and visibility monitoring points must be audited prior to commencing monitoring, for compliance with the requirements set out in Conditions E3, E4, E5 and E20. Verification and compliance auditing is to be undertaken by an independent person(s) or organisation(s) whose appointment has been approved by the Secretary. The independent person(s) must be a Chartered Professional Engineer (either Mechanical, Chemical or Control Systems engineer).	DPIE	Operational Environmental Management Plan
E37	The Proponent must engage a person independent from the design and construction of the CSSI, to audit the air quality monitoring (in-tunnel and ambient) for the CSSI at six (6) monthly intervals following commencement of operation of the CSSI, or at any longer interval if approved by the Secretary.	DPIE	Operational Environmental Management Plan
E40	The Proponent must document the results of the audit and make available all audit data for inspection by the Secretary upon request. A copy of the audit report must also be issued to the Proponent and AQCCC.	DPIE	Air Quality Community Consultative Committee

CoA Ref	Audit Details	Recipient of the audit report	Where addressed
E148	Prior to the opening of the project to traffic, a full audit of the fire and life safety system as defined by the Fire Engineering Study required by Condition E147 must be undertaken by an Accredited Fire Engineer. The objective of the audit must be to ensure that all design and operational measures outlined in the fire engineering study has been installed, are operational, and achieve the required design criteria. The results of the audit must be submitted to FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations resulting from the FRNSW review of the audit.	DPIE; Fire and Rescue NSW	Project Quality Plan

#### 4.4 Audit program risks

It is a requirement of ISO 19011:2014 to consider the many different risks associated with establishing, implementing, monitoring, reviewing and improving an audit program that may affect the achievement of the objectives listed in Section 1.3. Some of the risks associated with the different stages of the CTEAP are listed in Table 4- 4-8, as well as the reference for the sections of the Program or the CEMP that address the approach to managing each potential risk.

Table 4-8 Program risks

Program stage	Potential risks	Reference
Establishing	Failure to set relevant audit objectives	Section 1.3
	Failure to determine the extent of the audit program	Section 3.3
	Lack of resources, such as time and Project personnel	Section 2.4
	, ,	Section 3.3 of the CEMP
Implementing	Ineffective communication	Section 3.7 of the CEMP
	Lack of competence among audit	Section 2.4
	team members	Section 2.6
		Section 3.5 of the CEMP
Monitoring	Ineffective documentation of environmental records	Section 3.11 of the CEMP Section 7

Program stage	Potential risks	Reference
	Ineffective understanding of requirements associated with different technical fields of study	Section 2.4
Reviewing and improving	Ineffective monitoring of audit program outcomes	Section 2.5

# 5 Reporting

#### 5.1 Audit Reports

Following completion of Independent Environmental Compliance Audits, the auditor will ensure the review and finalisation of audit reports, including the evaluation of the suitability and adequacy of audit findings. The auditor will also organise a review of root cause analysis and the effectiveness of corrective actions and preventive actions. These findings will determine whether a follow-up audit is required.

The Project will submit a copy of the Audit Report to the Secretary for information, with a response to any recommendations contained in the audit report within six (6) weeks of completing the audit. Audit reports will be distributed to the top management and other relevant stakeholders as required. Refer to Table 5-1 for full reporting schedule.

#### 5.2 Periodic Compliance Reporting

LSBJV will lodge periodic construction compliance reports to the Secretary at intervals set out in

Table 5-1 below. Non-compliances relating to the Instrument of Approval will be included in the following Compliance Reports:

- The Pre-Construction Compliance Report (PCCR) (CoA A30) will provide the first compliance review for the Project against the CoA and REMM. The PCCR will be submitted to the Secretary at least one month prior to the commencement of the Project in accordance with CoA A30.
- The second review (being the first CCR, CoA A33) will be undertaken following the first six months of construction and then every six months after that.
- A final review (the Pre-Operation Compliance Report, CoA A34) of construction-related compliance will also be undertaken prior to the commencement of operation.

**Table 5-1 Schedule of Compliance Reporting** 

Report type	Description	Indicative timing	Responsibility	Recipient of Report
Pre- Construction Compliance Report	Description of compliance status of the Project prior to the commencement of construction.	October 2018	Environment and Sustainability Manager	DPIE; WCX; TfNSW; ER

Report type	Description	Indicative timing	Responsibility	Recipient of Report
Construction Compliance Report	Ongoing six-monthly compliance reports  First report will be issued 6 months following commencement of construction.	May 2019 November 2019 May 2020 November 2020 May 2021 November 2021 May 2022 November 2022 May 2023	Environment and Sustainability Manager	DPIE; WCX; TfNSW; ER
Pre-Operation Compliance Report	Description of compliance status of the Project after the completion of construction.	June 2024	Environment and Sustainability Manager	DPIE; WCX; TfNSW; ER
Environmental Audit Report	Ongoing environmental audit reports	Within six weeks of audit completion	Environment and Sustainability Manager	DPIE; WCX; ER; TfNSW

The six-monthly CCRs will include a summary of the activities undertaken during the reporting period and identify any non-compliances against Project CoA or REMMs, along with the Project actions to prevent re-occurrence.

**Appendix B** of this document contains the details of each CoA, including relevant Project stage, timing and approval details are also included.

#### 5.3 ER and AA reporting

Both the AA and ER prepare reports for submission to the DPIE on a monthly basis. These documents detail any compliance issues with CoA and REMMs, based on observation and review of Project complaints and incident reports. Refer to Table 5-3 for additional detail.

#### **5.4 Construction Monitoring Reports**

As per CoA C17, the following construction monitoring reports (CMRs) are required to be prepared:

- Surface Water Quality Monitoring
- Groundwater Monitoring
- Noise and Vibration Monitoring
- Blast Monitoring
- Dust Deposition Monitoring

Environmental monitoring in accordance with these CMRs is to be undertaken to validate the predicted impacts for the Project, measure the effectiveness of the environmental controls installed

onsite in accordance with the Project's CEMP, and to address approval requirements. The CMRs are prepared six-monthly and summarise monitoring outcomes, and are submitted to the Secretary and relevant regulatory authorities for information, as detailed in Table 5-2.

**Table 5-2 Table Construction Monitoring requirements** 

CoA/ REMM	Description	Report Recipients
C9 (a)	Surface Water Quality Monitoring Program	DPIE, DPI Water, Sydney Water and relevant council(s)
C9 (b)	Groundwater Monitoring Program	DPIE, DPI Water, Sydney Water and relevant council(s)
C9 (c)	Noise and Vibration Monitoring Program	DPIE, relevant council(s), NSW Health
C9 (d)	Blast Monitoring Program	DPIE, EPA
C9 (e)	Dust Deposition Monitoring Program	DPIE, EPA

#### 5.5 Other reporting

Additional reporting requirements identified in Project documents are detailed in Table 5-3**Error! Reference source not found.** 

**Table 5-3 Additional reporting requirements** 

Report	Details	Freq.	Reference	Responsibility	Recipient of report
Monthly Environmental Report	A monthly summary of the achievements, approvals, complaints and Incidents during the period.	Monthly	D&C Deed	Environment and Sustainability Manager	WCX; TfNSW as required by the Deed; JV parent companies
Environmental Representative monthly report	The approved ER must prepare and submit to the Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading "Environmental Representative Monthly Reports." The Environmental Representative Monthly Report must be submitted within seven (7) calendar days following the end of each month for the duration of the ER's engagement for the CSSI, or as otherwise agreed with the Secretary.	Monthly	CoA A22	Environmental Representative	DPIE; WC; TfNSW; LSBJV
Acoustic Advisor monthly report	The approved AA must prepare and submit to the Secretary and other relevant regulatory agencies, for information, a Monthly Noise and Vibration Report detailing the AAs actions and decisions on matters for which the AA was responsible in the preceding month. The Monthly Noise and Vibration Report must be submitted within seven (7) days following the end of each month for the duration of the AA's engagement for the CSSI, or as otherwise agreed by the Secretary.	Monthly	CoA A26(g)(v)	Acoustic Advisor	DPIE; EPA; WCX; LSBJV

Report	Details	Freq.	Reference	Responsibility	Recipient of report
EPL Annual Returns	Report on compliance with the Project EPL	Annually	EPA annual return proforma	Environment and Sustainability Manager	EPA
Material harm report	Immediately and then written details of notification of incidents causing or threatening material harm to the environment, as detailed in the Project Pollution Incident Response Management Plan.	Within 7 days of incident causing or threatening material harm	Project EPL CoA A40	Environment and Sustainability Manager	DPIE; EPA
EPA requested report	Report as requested by the EPA	As required by the EPA	Project EPL COA A43	Environment and Sustainability Manager	EPA

# 6 Addressing Non-compliance

#### 6.1 Environmental auditing

The E&SM will be responsible for the close out of non-compliances raised during an environmental audit. When a non-compliance is raised by the auditor, the E&SM will determine appropriate actions and delegate to the appropriate person for implementation of the corrective / preventative action. The action will then be closed out within the allocated time as set by the E&SM.

On completion of the agreed actions, the E&SM will submit evidence (eg photographs, a revised process or plan etc) of the close out to the auditor. The auditor will then review the evidence supplied and determine if the non-compliance has been adequately responded to. If agreed, the audit close out report will be issued by the auditor indicating the non-compliance has been dealt with and the audit has been closed.

#### 6.2 Review of compliance

If a non-compliance is identified during a review of compliance, the E&SM may issue an Environmental Actions List (*LLE703B Environmental Observation* Report) or an Environmental Improvement Notice (*LLE703C Environmental Improvement Notice*) in response to the identified compliance issue. The list or notice will be issued to the appropriate person for implementation of the corrective / preventative action. The action will then be closed out within the allocated time as set by the E&SM.

On completion of the agreed actions, the appropriate person will submit evidence (eg photographs, a revised process or plan etc) of the close out to the E&SM. The E&SM will then review the evidence supplied and determine if the non-compliance has been adequately responded to. If agreed, the list or notice issued by the E&SM will be closed out.

#### 6.3 Non-conformance

A non-conformance is a failure to comply with a requirement, standard or procedure relevant to the Project, such as the CoA, CEMP or associated documents. A non-conformance may be raised by the Project team, the ER, TfNSW, the SMC Representative or public authority.

Where non-conformances are identified, they will be recorded on an environmental action list. The environmental action list will be issued to the relevant supervisor for action. Actions will be assigned an implementation priority in a collaborative way by the inspection team based on environmental risk. Where more significant deficiencies in environmental controls or in the standard of environmental performance are observed, the E&SM will issue an Environmental Improvement Notice (EIN) using form *LLE703C Environmental Improvement* Notice in response to poor or inappropriate work methods or environmental controls, equipment selection, maintenance of controls, or other identified concerns.

Non-conforming activities may be stopped, if necessary, by the E&SM, Environmental Officers or Project / Site Engineer following consultation with the Area Manager or delegate. The works will not re-commence until a corrective / preventative action has been closed out. The ER may also stop works in these circumstances..

#### 6.4 Non-compliance

A non-compliance is an occurrence, set of circumstances or development that is a breach of the Conditions of Approval, which can also be, but is not necessarily, an environmental incident. If a non-compliance is identified during a review of compliance, the Environment and Sustainability Manager may issue an Environmental Actions List (LLE703B Environmental Observation Report – internal document) or an Environmental Improvement Notice (LLE703C Environmental

Improvement Notice – internal document) in response to the identified compliance issue. The list or notice will be issued to the appropriate person for implementation of the corrective / preventative action. The action will then be closed out within the allocated time as set by the Environment and Sustainability Manager.

On completion of the agreed actions, the appropriate person will submit evidence (eg photographs, a revised process or plan etc) of the close out to the Environment and Sustainability Manager. The Environment and Sustainability Manager will then review the evidence supplied and determine if the non-compliance has been adequately responded to. If agreed, the list or notice issued by the Environment and Sustainability Manager will be closed out.

A Non-compliance will also be reported in accordance with the TfNSW Environmental Incident Classification and Reporting Procedure, further detailed in the CEMP.

# 7 Program records

The E&SM should ensure that audit records are created, managed and maintained to demonstrate the implementation of the audit program. Processes established as part of the Project Document Control procedure shall be implemented to ensure that any confidentiality needs associated with the audit records are addressed. Records should include requirements as per ISO 19011:2014.

Appendix A Environmental Representative Endorsement								
22   MA ME Link Mainling Transle Compliance Tracking and Environmental Audit Draggers								

# hutchison weller

Grant Sainsbery
Environment and Sustainability Manager
Lendlease Samsung Bouygues Joint Venture

18 October 2018 17021-LT-ED-013\_0

Dear Grant,

# WestConnex M4-M5 Link Project – Mainline Tunnels Compliance Tracking and Environmental Audit Program

I have reviewed the changes made to Revision 3 of the Compliance Tracking and Environmental Audit Program (CTEAP) and am satisfied that the changes made are minor and administrative in nature.

I am satisfied that Condition A27, A29, A36 and A37 of the Infrastructure Approval (SSI 7485), remain to be met as per my endorsement dated the 27 July 2018.

As required by Condition of Approval A21(i), I approve the changes made to the Compliance Tracking and Environmental Audit Plan.

Phone: 02 8969 6071

Email: info@hutchisonweller.com

www.hutchisonweller.com

Kind Regards

Cameron Weller

Principle Environmental Representative

WestConnex M4-M5 Link Project



	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA		· · · · · · · ·	,		
	The CSSI must be carried out in accordance with the terms of this approval and generally in accordance with the description of the CSSI in:				
A1					
l'	* the WestConnex M4-M5 Link Environmental Impact Statement – Volumes 1A-C and 2A-J (dated August 2017) (the EIS); and  * the WestConnex M4-M5 Link Submissions and Preferred Infrastructure Report (dated January 2018) (the SPIR).				
A2	The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation				
	measures set out in the EIS and SPIR unless otherwise specified in, or required under, this approval.  In the event of an inconsistency between the EIS as amended by the description in the SPIR or any other document required under this approval,				
	and a term of this approval, the term of this approval prevails to the extent of the inconsistency.				
A3	Note: For the purpose of this condition, there will be an inconsistency between a term of this				
	approval and any document if it is not possible to comply with both the term and the document.				
	The Proponent must comply with all requirements of the Secretary in relation to:				
	(a) the environmental performance of the CSSI;				
A4	(b) any document or correspondence under the terms of this approval in relation to the CSSI; (c) any notification given to the Secretary under the terms of this approval;				
A4	(d) any audit of the construction or operation of the CSSI;				
	(e) compliance with the terms of this approval (including anything required to be done under this approval); (f) the carrying out of any additional monitoring or mitigation measures; and				
	(g) in respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol,				
4.5	Australian Standard or policy required to be complied with under this approval.  In the event that there are differing interpretations of the terms of this approval, including in relation to a condition of this approval, the				
A5	Secretary's interpretation is final.			1	
	Where the terms of this approval require a document or monitoring program to be prepared or a review to be undertaken in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Secretary with the document. The evidence must include:				
	(a) documentation of the engagement with the party(s) identified in the condition of approval that has occurred prior to submitting the document for approval;				
A6	(b) log of the points of engagement or attempted engagement with the identified party(s) and a summary of the issues raised by them;				
	(c) documentation of the follow-up with the identified party(s) where feedback has not been provided to confirm that they have none or have failed to provide feedback after repeated requests;				
	(d) outline of the issues raised by the identified party(s) and how they have been addressed; and				
	(e) a description of the outstanding issues raised by the identified party(s) and the reasons why they have not been addressed.				
	Where the terms of approval provide for Secretarial discretion (for example in relation to the timing of an action), the Proponent must provide				
A7	supporting evidence so that the Secretary can consider the need, environmental impacts and consistency of any request.				
	Note: Inaction and/or expedience will not be supported as justifications for need unless it can be demonstrated that there is beneficial environmental				
	impacts associated with the request.  Where a condition of this approval requires the Proponent to submit a document or notification to the Secretary or obtain an approval from the				
A8	Secretary within a specified time period, the Proponent may make a written request to the Secretary seeking an alternative timeframe. Any request must be made at least one (1) month prior to the submission timeframe stipulated in the condition of approval relating to the variation				
	request.				
A9	Without limitation, all strategies, plans, programs, reviews, audits, report recommendations, protocols and the like required by the terms of this approval must be implemented by the Proponent in accordance with all requirements issued by the Secretary from time to time in respect of				
,,,	them.				
A10	This approval lapses five (5) years after the date on which it is granted, unless works for the purpose of the CSSI are physically commenced on or before that date.				
A11	The Proponent is responsible for any breaches of the conditions of this approval resulting from the actions of all persons that it invites onto any				
	site, including contractors, sub-contractors and visitors.  The CSSI may be constructed and operated in stages. Where staged construction or operation is proposed, a Staging Report (for either or both				
	construction and operation as the case requires) must be prepared and submitted to the Secretary for information. The Staging Report must be				
A12	submitted to the Secretary no later than one (1) month prior to the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one (1) month prior to the commencement of operation of the first of the proposed stages				
	of operation).				
	The Staging Report must:				
	(a) if staged construction is proposed, set out how the construction of the whole of the CSSI will be staged, including details of work and other				
840	activities to be carried out in each stage and the general timing of when construction of each stage will commence and finish; (b) if staged operation is proposed, set out how the operation of the whole of the CSSI will be staged, including general details of work and other				
A13	activities to be carried out in each stage and the general timing of when operation of each stage will commence and finish (if relevant);				
	(c) specify the relevant conditions of approval that apply to each stage and how compliance with those conditions will be achieved across and between each of the stages of the CSSI; and				
	(d) set out mechanisms for managing any cumulative impacts arising from the proposed staging.				
A14	The CSSI must be staged in accordance with the Staging Report, as submitted to the Secretary.				
A15	Where staging is proposed, the terms of this approval that apply or are relevant to the works or activities to be carried out in a specific stage must				
A1/	be complied with at the relevant time for that stage.  Where changes are proposed to the staging of construction or operation, a revised Staging Report must be prepared and submitted to the				
A16	Secretary for information no later than one (1) month prior to the proposed change in the staging.				
A17 A18	Works must not commence until an Environmental Representative (ER) has been approved by the Secretary and engaged by the Proponent.  The Secretary's approval of an ER must be sought no later than one (1) month prior to the commencement of works.			+	
A19	The proposed ER must be a suitably qualified and experienced person who was not involved in the preparation of the EIS or SPIR, and is				
420	independent from the design and construction personnel for the CSSI.  The Proponent may engage more than one ER for the CSSI, in which case the functions to be exercised by an ER under the terms of this approval				
A20	may be carried out by any ER that is approved by the Secretary for the purposes of the CSSI.				

			B	
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CUA				
	For the duration of the works until the completion of construction, the approved ER must:			
	(a) receive and respond to communication from the Secretary in relation to the environmental performance of the CSSI:			
	(b) consider and inform the Secretary on matters specified in the terms of this approval;			
	(c) consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the			
	environment and to the community;			
	(d) review documents identified in Conditions C1, C4 and C9 and any other documents that are identified by the Secretary, to ensure they are consistent with requirements in or under this approval and if so:			
	(i) make a written statement to this effect before submission of such documents to the Secretary (if those documents are required to be			
	approved by the Secretary), or			
	(ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to			
	the Secretary / Department for information or are not required to be submitted to the Secretary / Department); (e) regularly monitor the implementation of the documents listed in Conditions C1, C4 and C9 to ensure implementation is being carried out in			
A21	accordance with the document and the terms of this approval;			
AZI	(f) as may be requested by the Secretary, help plan, attend or undertake audits of the development commissioned by the Department including			
	scoping audits, programming audits, briefings and site visits, but not independent environmental audits required under Condition A36 of this approval;			
	(g) as may be requested by the Secretary, assist the Department in the resolution of community complaints;			
	(h) assess the impacts of minor ancillary facilities comprising lunch sheds, office sheds and portable toilet facilities as required by Condition C24 of			
	this approval; (i) consider any minor amendments to be made to the CEMP, CEMP Sub-plans and monitoring programs that comprise updating or are of an			
	administrative nature, and are consistent with the terms of this approval and the CEMP, CEMP Sub-plans and monitoring programs approved by			
	the Secretary and, if satisfied such amendment is necessary, approve the			
	amendment. This does not include any modifications to the terms of this approval; and  (i) prepare and submit to the Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report			
	(j) prepare and submit to the Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly providing the information set out in the Environmental Representative Protocol under the heading "Environmental Representative Monthly			
	Reports." The Environmental Representative Monthly Report must be submitted within seven (7) calendar days following the end of each month			
<u> </u>	for the duration of the ER's engagement for the CSSI, or as otherwise agreed with the Secretary.			
	The Proponent must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in Condition A21 (including preparation of the Environmental Representative Monthly Report), as well as:			
A22	Control of the second of the s			
AZZ	(a) the complaints register (to be provided on a daily basis); and			
	(b) a copy of any assessment carried out by the Proponent of whether proposed work is consistent with the approval (which must be provided to the ER before the commencement of the subject work).			
	The Secretary may at any time commission an audit of an ER's exercise of its functions under Condition A21. The Proponent must:			
A23				
7.20	(a) facilitate and assist the Secretary in any such audit; and (b) make it a term of their engagement of an ER, that the ER facilitate and assist the Secretary in any such audit.			
	A suitably qualified and experienced Acoustics Advisor (AA), who is independent of the design and construction personnel, must be nominated by			
	the Proponent and engaged for the duration of works and for no less than six (6) months following completion of construction of the CSSI.			
	The details of the naminated AA must be submitted to the Secretary for engroupling later than one (1) month before commencement of works			
	The details of the nominated AA must be submitted to the Secretary for approval no later than one (1) month before commencement of works.			
	The Proponent must cooperate with the AA by:			
A24	(A) and difference has a few and allowed as a second state of the			
	(a) providing access to noise and vibration monitoring activities as they take place; (b) providing for review of noise and vibration plans, assessments, monitoring reports, data and analyses undertaken; and			
	(c) considering any recommendations to improve practices and demonstrating, to the satisfaction of the AA, why any recommendation is not			
	adopted.			
A25	Any activities generating noise in excess of the 'Noise affected' Noise Management Levels derived from the Interim Construction Noise Guideline			
AZ5	must not commence until an AA, nominated under Condition A24 of this approval, has been approved by the Secretary.			
1	The approved AA must:			
1	(a) receive and respond to communication from the Secretary in relation to the performance of the CSSI in relation to noise and vibration;			
	(b) consider and inform the Secretary on matters specified in the terms of this approval relating to noise and vibration;			
	(c) consider and recommend, to the Proponent, improvements that may be made to avoid or minimise adverse noise and vibration impacts; (d) review all noise and vibration documents required to be prepared under the terms of this approval and, should they be consistent with the			
	terms of this approval, endorse them before submission to the Secretary (if required to be submitted to the Secretary) or before implementation			
	(if not required to be submitted to the Secretary);			
	(e) regularly monitor the implementation of all noise and vibration documents required to be prepared under the terms of this approval to ensure			
	implementation is in accordance with what is stated in the document and the terms of this approval; (f) notify the Secretary of noise and vibration incidents in accordance with Condition A40 of this approval;			
	(g) in conjunction with the ER, the AA must:			
A26	(i) as may be requested by the Secretary or Community Complaints Mediator (required by Condition B13), help plan, attend or undertake audits			
	of noise and vibration management of the CSSI including briefings, and site visits,  (ii) in the event that conflict arises between the Proponent and the community in relation to the noise and vibration performance of the CSSI,			
	follow the procedure in the Communication Strategy approved under Condition B2 to attempt to resolve the conflict, and if it cannot be resolved,			
	notify the Secretary,			
	(iii) consider relevant minor amendments made to the CEMP, relevant sub-plans and noise and vibration monitoring programs that require			
	updating or are of an administrative nature, and are consistent with the terms of this approval and the management plans and monitoring programs approved by the Secretary and, if satisfied such amendment is necessary, endorse the amendment. This does not include any			
	modifications to the terms of this approval,			
	(iv) review the noise impacts of minor construction ancillary facilities, and			
	(v) prepare and submit to the Secretary and other relevant regulatory agencies, for information, a Monthly Noise and Vibration Report detailing the AAs actions and decisions on matters for which the AA was responsible in the preceding month. The Monthly Noise and Vibration Report must			
	be submitted within seven (7) days following the end of each month for the duration of the AA's engagement for the CSSI, or as otherwise agreed			
	by the Secretary.			

	Final Cauditions of Annuaval	Timing	Decrepability	Camplianas Status	Commente I Fridance
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CUA					
A27	A Compliance Tracking Program to monitor compliance with the terms of this approval must be prepared, taking into consideration any staging of				
HZ1	the CSSI that is proposed in a Staging Report submitted in accordance with Conditions A12 and A13 of this approval.				
A28	The Compliance Tracking Program must be endorsed by the ER and then submitted to the Secretary for information at least one (1) month prior to the commencement of works.				
	The Compliance Tracking Program in the form required under Condition A28 of this approval must be implemented for the duration of works and				
	for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Secretary based on the				
A29	outcomes of independent environmental audits, Environmental Representative Monthly Reports and regular compliance reviews submitted				
	through Compliance Reports. If staged operation is proposed, or operation is commenced of part of the CSSI, the Compliance Tracking Program				
	must be implemented for the relevant period for each stage or part of the CSSI.  A Pre-Construction Compliance Report must be prepared and submitted to the Secretary for information no later than one (1) month prior to the				
A30	commencement of construction (or each stage of construction identified in the Staging Report).				
	The Pre-Construction Compliance Report must include:				
A31	(a) details of how the terms of this approval that must be addressed before the commencement of construction have been complied with; and				
	(b) the proposed commencement date for construction.				
A32	Construction must not commence until the Pre-Construction Compliance Report has been submitted to the Secretary.				
	Construction Compliance Reports must be prepared and submitted to the Secretary for information every six (6) months from the date of the				
	commencement of construction for the duration of construction. The Construction Compliance Reports must include:				
	(a) a results summary and analysis of environmental monitoring.				
	(a) a results summary and analysis of environmental monitoring; (b) the number of any complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies				
A33	for reducing the recurrence of such complaints;				
	(c) details of any review of, and minor amendments made to, the CEMP as a result of construction carried out during the reporting period;				
	(d) a register of any consistency assessments undertaken and their status;				
	(e) results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit; (f) a summary of all incidents notified in accordance with Conditions A40 and A42 of this approval; and				
	(g) any other matter relating to compliance with the terms of this approval or as requested by the Secretary.				
	A Pre-Operation Compliance Report must be prepared and submitted to the Secretary for information no later than one (1) month prior to the				
	commencement of operation. The Pre-Operation Compliance Report must include:				
A34	(a) details of how the towns of this conveyed that much be addressed before the commencement of appreciation have been committed with, and				
	(a) details of how the terms of this approval that must be addressed before the commencement of operation have been complied with; and (b) the commencement date for operation.				
A35	Operation must not commence until the Pre-Operation Compliance Report has been submitted for information to the Secretary.				
	An Environmental Audit Program for annual independent environmental auditing against the terms of this approval must be prepared in				
	accordance with AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems and submitted to the Secretary for information no later				
A36	than one (1) month prior to the commencement of construction				
	The Environmental Audit Program, as submitted to the Secretary, must be implemented and complied with for the duration of construction and				
	operation.				
A37					
	All independent environmental audits of the CSSI must be conducted by a suitably qualified, experienced and independent team of experts in auditing and be documented in an Environmental Audit Report which:				
	and and a decomment of the comment o				
A 2 0	(a) assesses the environmental performance of the CSSI, and its effects on the surrounding environment;				
A38	(b) assesses whether the project is complying with the terms of this approval; and				
	(c) recommends measures or actions to improve the environmental performance of the CSSI.				
	The Proponent must submit a copy of the Environmental Audit Report to the Secretary for information, with a response to any recommendations	1	1		
A39	contained in the audit report within six (6) weeks of completing the audit.				
A40	The Secretary must be notified as soon as possible and in any event within 24 hours of any incident.				
A41	Notification of an incident under Condition A40 of this approval must include the time and date of the incident, details of the incident and must				
	identify any consequent non-compliance with this approval.  All written requirements of the Secretary or relevant public authority, which may be given at any point in time, to address the cause or impact of				
A42	an incident must be complied with, within any timeframe specified by the Secretary or relevant public authority.				
A43	If statutory notification is given to the EPA as required under the POEO Act in relation to the CSSI, such notification must also be provided to the				
A43	Secretary within 24 hours after the notification was given to the EPA.				
A44	All construction spoil haulage vehicles must be clearly marked as being for WestConnex M4-M5 Link (including CSSI application number) in such a				
A45	manner to enable immediate identification within at least 50 metres of the vehicles.  Signage on hoardings surrounding construction ancillary facilities must include the CSSI name and application number.				
	A Communication Strategy must be prepared to facilitate communication between the Proponent, and the community (including relevant				
B1	councils, government authorities, adjoining affected landowners and businesses, and others directly impacted by the CSSI).				

	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA	Final Conditions of Approval	Timing	Responsibility	Compnance Status Comments / Evidence
	The Communication Strategy must:			
	(a) identify people and organisations to be consulted during the design and work phases;			
	(b) set out procedures and mechanisms for the regular distribution of accessible information about or relevant to the CSSI;			
	(c) identify opportunities to provide accessible information regarding regularly updated site construction activities, schedules and milestones at each construction site including use of construction hoardings to provide information regarding construction specific to the location;			
	(d) identify opportunities for the community to visit construction sites (taking into consideration on-site activities and workplace, health and safety			
	requirements);			
	(e) detail the measures for advising the community in advance of upcoming utility works;			
B2	(f) provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the			
	relevant community(s) for the CSSI; (g) set out procedures and mechanisms for consulting with relevant council(s) and government authorities/agencies, as required under the terms			
	of this approval, including procedures for repeated requests and nil responses;			
	(h) detail the roles and responsibilities of the Public Liaison Officer(s) engaged under Condition B6;			
	(i) set out procedures and mechanisms: (i) through which the community can discuss or provide feedback to the Proponent,			
	(ii) through which the Proponent will respond to enquiries or feedback from the community, and			
	(iii) to resolve any issues and mediate any disputes that may arise in relation to environmental management and delivery of the CSSI.			
	The Communication Strategy must be submitted to the Secretary for approval no later than one (1) month prior to the commencement of any			
В3	work.			
B4	Work for the purposes of the CSSI must not commence until the Communication Strategy has been approved by the Secretary.  The Communication Strategy, as approved by the Secretary, must be implemented for the duration of the works and for 12 months following the			
B5	completion of construction.			
5.1	A Public Liaison Officer(s) must be appointed for construction ancillary facility(s) and for utility works to assist the public with questions and			
B6	complaints they may have at any time during construction. The Public Liaison Officer(s) must be available at all times that works are occurring.			
	Prior to the commencement of works, the Proponent must maintain and operate a toll-free WestConnex Acquisition Assistance Line for a period			
	of up to six (6) months following completion of the final acquisition required for the CSSI, unless otherwise agreed by the Secretary. The WestConnex Acquisition Assistance Line must provide an ongoing dispute resolution, counselling program and contact information to relevant			
	services for all relocated persons. The WestConnex Acquisition Assistance Line must also provide first language support for relocated persons with			
B7	English as a second language.			
	The management of the assistance line is to be outlined within the Communication Strategy as required by Condition B1 and is to be maintained			
	and operated separately from the standard complaints and enquiries procedure.			
B8	A Complaints Management System must be prepared prior to the commencement of any works in respect of the CSSI and be implemented and			
	maintained for the duration of construction and for a minimum for 12 months following completion of construction of the CSSI.  The Complaints Management System must include a Complaints Register to be maintained recording information on all complaints received about			
	the CSSI during the carrying out of any works associated with the CSSI and for a minimum of 12 months following the completion of construction			
	of the CSSI. The Complaints Register must record the:			
В9	(a) number of complaints received;			
	(b) number of people affected in relation to a complaint; and			
	(c) nature of the complaint and means by which the complaint was addressed and whether resolution was reached, with or without mediation.			
B10	The Complaints Register must be provided to the Secretary upon request, within the timeframe stated in the request.			
	The following must be available within one (1) month prior to the commencement of works and for 12 months following the completion of			
	construction of the CSSI and appropriately broadcast to manage community enquiries and complaints:			
B11	(a) a 24 hour toll-free telephone number for the registration of complaints and enquiries about the CSSI;			
311	(b) a postal address to which written complaints and enquires may be sent;			
	(c) an email address to which electronic complaints and enquiries may be transmitted; (d) a mediation system for complaints unable to be resolved; and			
	(e) a mechanism for community members to make enquiries in common community languages of the area.			
	The telephone number, postal address and email address required under Condition B11 of this approval must be published in a newspaper			
B12	circulating in the local area and on-site hoarding at each construction site before commencement of works and published in the same way again prior to the commencement of operation. This information must also be provided on the website required under Condition B17 of this approval.			
B13	A Community Complaints Mediator that is independent of the design and construction personnel must be nominated by the Proponent, approved by the Secretary and engaged during all works associated with the CSSI. The request nominating the Community Complaints			
ыз	Mediator must be submitted to the Secretary for approval within one (1) month of the date of this approval.			
	The role of the Community Complaints Mediator is to address any complaint where a member of the public is not satisfied by the Proponent's			
D14	response. Any member of the public that has lodged a complaint which is registered in the Complaints Management System identified in Condition			
B14	B8 may ask the Community Complaints Mediator to review the Proponent's response. The application must be submitted in writing and the Community Complaints Mediator must respond within 28 days of the request being made or other specified timeframe agreed between the			
	Community Complaints Mediator and the member of the public.			
	The Community Complaints Mediator will:			
B15	(a) review the Proponent's unresolved disputes between the project and members of the public if the procedures and mechanisms under			
	Condition B2(I)(III) do not satisfactorily address complaints; and			
B16	The Community Complaints Mediator will not act before the Proponent has provided an initial response to a complaint and will not consider issues such as property acquisition where other dispute processes are provided for in this approval, or clear government policy and resolution processes			
010	are available, or matters which are not within the scope of the CSSI.			

	Final Canditions of Annescal	Timina	Decrepability	Compliance Status Commanda / Evidence
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
COA				
	A website providing information in relation to the CSSI must be established before commencement of works and maintained for the duration of works, and for a minimum of 24 months following the completion of construction of the CSSI. The following up-to-date information (excluding confidential, private and commercial information) must be published prior to works commencing and maintained on the website or dedicated pages:			
B17	(a) information on the current implementation status of the CSSI; (b) a copy of the documents listed in Condition A1 of this approval, and any documentation relating to any modifications made to the CSSI or the terms of this approval; (c) a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its			
	terms), and copies of any approval granted by the Minister to a modification of the terms of this approval; and (d) a copy of each licence or permit required and obtained in relation to the CSSI.  Where a condition(s) of this approval requires a document(s) be prepared prior to a work or construction or operational activity being			
C1	undertaken, a current copy of the relevant document(s) must also be published on the website before the work / activity is undertaken.  A Construction Environmental Management Plan (CEMP) must be prepared in accordance with the Department's Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004) to detail how the performance outcomes, commitments and mitigation measures specified in the			
	documents listed in Condition A1 will be implemented and achieved during all stages of construction.  The CEMP must provide:			
C2	(a) a description of activities to be undertaken during construction (including the scheduling of construction); (b) details of environmental policies, guidelines and principles to be followed in the construction of the CSSI; (c) a schedule for compliance auditing; (d) a program for ongoing analysis of the key environmental risks arising from the activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of construction of the CSSI; (e) details of how the activities described in subsection (a) of this condition will be carried out to: (i) meet the performance outcomes stated in the documents listed in Condition A1, and (ii) manage the risks identified in the risk analysis undertaken in subsection (d) of this condition; (f) an inspection program detailing the activities to be inspected and frequency of inspections; (g) a protocol for managing and reporting any: (i) incidents, and (ii) non-compliances with this approval and with statutory requirements; (h) procedures for rectifying any non-compliance with this approval identified during compliance auditing, incident management or at any time			
	during construction; (i) a list of all the CEMP Sub-plans required in respect of construction, as set out in Condition C4. Where staged construction of the CSSI is proposed, the CEMP must also identify which CEMP Sub-plan applies to each of the proposed stages of construction; (j) a description of the roles and environmental responsibilities for relevant employees and their relationship with the ER; (k) an outline of the training and induction for employees, including contractors and sub-contractors, in relation to environmental and compliance obligations under the terms of this approval; and (i) the process for periodic review and update of the CEMP and all associated plans and programs.			
C3	The CEMP must be endorsed by the ER and then submitted to the Secretary for approval no later than one (1) month prior to the commencement of construction, or where construction is staged no later than one (1) month prior to the commencement of that stage.			
	The following CEMP Sub-plans must be prepared in consultation with the relevant authorities identified for each CEMP Sub-plan and be consistent with the CEMP referred to in the EIS.  (a) Traffic and Transport and access: Port Authority of NSW, Sydney Coordination Office and relevant council(s)	t		
	(b) Noise and vibration: EPA and relevant council(s)  (c) Flora and fauna: OEH and relevant council(s)  (d) Air quality: EPA and relevant council(s)			
C4	(e) Soil and surface water: DPI Water; OEH; EPA; Sydney Water; and relevant council(s) (f) Groundwater: DPI Water (g) Non-Aboriginal Heritage: Heritage Council of NSW; Heritage Division; and relevant council(s)			
	(h) Aboriginal Heritage: OEH (i) Waste Management: N/A			
	*Port Authority of NSW to be consulted when considering impacts on port land.  The CEMP Sub-plans must state how:			
C5	<ul> <li>(a) the environmental performance outcomes identified in the EIS and SPIR as modified by these conditions will be achieved;</li> <li>(b) the mitigation measures identified in the EIS and SPIR as modified by these conditions will be implemented;</li> <li>(c) the relevant terms of this approval will be complied with; and</li> <li>(d) issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed.</li> </ul>			
C6	The CEMP Sub-plans must be endorsed by the ER and then submitted to the Secretary for approval no later than one (1) month prior to the commencement of the construction activities to which they apply.			
C7	Any of the CEMP Sub-plans may be submitted to the Secretary along with, or subsequent to, the submission of the CEMP.			
C8	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Secretary. The CEMP and CEMP Sub-plans, as approved by the Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction. Where the CSSI is being staged, construction of that stage is not to commence until the relevant CEMP and CEMP sub-plans have been endorsed by the ER and approved by the Secretary.			
	The following Construction Monitoring Programs must be prepared in consultation with the relevant authorities identified for each Construction Monitoring Program to compare actual performance of construction of the CSSI against predicted performance.			
С9	(a) Surface Water Monitoring Program: DPI Water, Sydney Water and relevant council(s) (b) Groundwater Monitoring Program: DPI Water, Sydney Water and relevant council(s) (c) Noise and Vibration Monitoring Program: Relevant council(s), NSW Health			
	(d) Blast Monitoring Program: EPA			

0.4	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA				
	Each Construction Monitoring Program must provide:			
	Constitution with the state of			
	(a) details of baseline data available;			
	(b) details of baseline data to be obtained and when;			
	(c) details of all monitoring of the project to be undertaken;			
C10	(d) the parameters of the project to be monitored; (e) the frequency of monitoring to be undertaken;			
	(f) the location of monitoring;			
	(g) the reporting of monitoring and analysis results against relevant criteria;			
	(h) details of the methods that will be used to analyse the monitoring data;			
	(i) procedures to identify and implement additional mitigation measures where results of monitoring are unsatisfactory; and			
	(j) any consultation to be undertaken in relation to the monitoring programs.  The Noise and Vibration Monitoring Program must include provision of real time noise and vibration monitoring data. The data must be readily			
C11	available to the construction team, Proponent, ER and AA. The Department and EPA must be provided with access to the real-time monitoring			
	data, on request.			
	The Groundwater Monitoring Program must include:			
	(a) daily measurement of the amount of water discharged from the water treatment plants;			
	(b) water quality testing of the water discharged from the water treatment plants; (c) monitoring of groundwater pore pressures in the Hawkesbury Sandstone aguifers adjacent to the tunnel alignment, in consultation with DPI			
	(c) monitoring or groundwater pore pressures in the Hawkesbury sandstone aquirers adjacent to the tunner alignment, in consultation with DPI Water;			
	(d) monitoring of groundwater electrical conductivity in key locations between saline water bodies and the tunnel as identified by the project			
	groundwater model including:			
242	(i) in the Haberfield / Lilyfield area to the south of Iron Cove,			
C12	(ii) in the Rozelle area to the north of Rozelle Bay, (iii) in the Annandale area to the west of Rozelle Bay,			
	(ii) in the Amandale area to the west of Rozelle Bay, (iv) in the Rozelle area to the south east of Iron Cove, and			
	(v) in the St Peters area to the north west of Alexandra Canal, with a minimum of two (2) groundwater monitoring wells to be provided in each			
	key location in consultation with DPI Water;			
	(e) measures to record or otherwise estimate and report groundwater inflows into the tunnels during their construction;			
	(f) a method for providing the data collected in (a) and (b) to Sydney Water every three (3) months to demonstrate the project's compliance with the discharge criteria and, if applicable, the Proponent's trade waste licence; and			
	(g) a method for providing the groundwater monitoring data to DPI Water every three (3) months during construction.			
C13	The Construction Monitoring Programs must be developed in consultation with the relevant authorities as identified in Condition C9.			
C14	The Construction Monitoring Programs must be endorsed by the ER and then submitted to the Secretary for approval at least one (1) month prior			
	to commencement of construction.  Construction must not commence until the Secretary has approved all of the required Construction Monitoring Programs relevant to that activity			
C15	and all the necessary baseline data for the required monitoring programs has been collected, to which the CEMP relates.			
	The Construction Monitoring Programs, as approved by the Secretary, including any minor amendments approved by the ER, must be			
C16	implemented for the duration of construction and for any longer period set out in the monitoring program or specified by the Secretary,			
	whichever is the greater.  The results of the Construction Monitoring Programs must be submitted to the Secretary, and relevant regulatory authorities, for information in			<del> </del>
C17	the form of a Construction Monitoring Programs must be submitted to the secretary, and relevant regulatory authornies, for information in			
C18	Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be incorporated into that CEMP Sub-plan.			
C19	Only one of the two ancillary facility options (A or B) presented in Chapter 6 of the EIS can be implemented at Haberfield, except if one site is used			
	for parking and other works that do not exceed the 'Noise affected' Noise Management Levels as identified in the ICNG.  Should Option B, as presented in Chapter 6 of the EIS, be progressed, a comparative analysis of environmental impacts of the use of the sites			
	during construction of the project (excluding Site Establishment Works and erection of acoustic enclosures), must be undertaken. The			
C20	comparative analysis must be undertaken for the following key environmental impacts: noise and vibration, traffic and transport, visual amenity			
	and socio-economic.			
	In the event that Option B is progressed, for purposes other than for parking and works that do not exceed the 'Noise affected' Noise			
	Management Levels as identified in the ICNG, the Proponent must submit a report outlining the findings of the comparative analysis required by Condition C20 to the Secretary for approval at least one (1) month prior to the establishment of the Option B construction ancillary facilities. The			
C21	report must demonstrate how management and mitigation measures, consistent with those included in the documents referred to in Condition			
	A1 and as required by the terms of approval, would be implemented to achieve, on balance, comparable environmental outcomes when			
	compared to Option A.			
	Before establishment of any construction ancillary facility as identified in the EIS and SPIR (and excluding minor construction ancillary facilities			
	established under Condition C24), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. The Site Establishment			
	Management Plan must be prepared in consultation with the relevant council(s) and government authorities. The Plan must be submitted to the			
	Secretary for approval one (1) month prior to establishment of any construction ancillary facilities. The Site Establishment Management Plan must			
	detail the management of the construction ancillary facilities and include:			
	(a) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of			
	works to be undertaken at the site);			
	(b) figures illustrating the proposed operational site layout(s);			
C22	(c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this			
	condition, including an initial risk assessment undertaken prior to the commencement of site establishment works;			
	(d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to: (i) meet the performance outcomes stated in the documents listed in the EIS and SPIR,			
	(i) to address the traffic and pedestrian impact assessment required by Condition E51, and			
	(iii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and			
	(e) a program for monitoring the performance outcomes, including a program for construction noise monitoring consistent with the requirements	5		
	of Conditions C9 and C10.			
	Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary			
	facility.		<u>                                       </u>	
C23	The operation of a construction ancillary facility must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required			
	by Condition C4 and relevant Construction Monitoring Programs required by Condition C9 have been approved by the Secretary.			

	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA				
	Lunch sheds, office sheds, and portable toilet facilities, that are not identified as a construction ancillary facility in the EIS and SPIR can be			
	established, where they satisfy the following criteria:			
	(s) have no weaker an irremental and amonity imports than there that can be unapped through the implementation of an irremental manufacture.			
	(a) have no greater environmental and amenity impacts than those that can be managed through the implementation of environmental measures detailed in the Site Establishment Management Plan required under Condition C22 of this approval; and			
	(b) are located within the project boundary; and			
C24	(c) have been assessed by the ER to have -			
	(i) minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim			
	Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts,			
	(ii) minimal environmental impact with respect to waste management and flooding, and			
	(iii) no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.			
	Boundary fencing that incorporates screening must be erected around all construction ancillary facilities that are adjacent to sensitive receivers			
C25	for the duration of site establishment and construction unless otherwise agreed with relevant council(s), and affected residents, business			
	operators or landowners.			
C26	Boundary fencing required under Condition C25 of this approval must minimise visual, noise and air quality impacts on adjacent sensitive			
C20	receivers.			
	An Operational Environmental Management Plan (OEMP) must be prepared in accordance with the Guideline for the Preparation of			
D1	Environmental Management Plans (DIPNR, 2004) to detail how the performance outcomes, commitments and mitigation measures made and identified in the EIS and SPIR will be implemented and achieved during operation. This condition (Condition D1) does not apply if Condition D2 of			
	this approval applies.			
	An OEMP is not required for the CSSI if the Proponent has an Environmental Management System (EMS) or equivalent as agreed with the			
	Secretary, and can demonstrate, to the written satisfaction of the Secretary, that through the EMS:			
	(a) the performance outcomes, commitments and mitigation measures, detailed in the EIS and SPIR, and specified relevant terms of this approval,			
D2	can be achieved;			
	(b) issues identified through ongoing risk analysis can be managed; and			
	(c) procedures are in place for rectifying any non-compliance with this approval identified during compliance auditing, incident management or			
	any other time during operation.			
D3	Where an OEMP is required, the Proponent must include the following OEMP Sub-plans in the OEMP:			
DS	(a) Groundwater management: DPI Water and Sydney Water			
	Each of the OEMP Sub-plans must include the information set out in Condition D2 (a), (b) and (c).			
D4				
	The OEMP Sub-plans must be developed in consultation with relevant authorities as identified in Condition D3.			
D5	The OEMP Sub-plans must be submitted to the Secretary as part of the OEMP.  The OEMP or EMS or equivalent as agreed with the Secretary, must be submitted to the Secretary for information no later than one (1) month			
D6	prior the commencement of operation.			
	The OEMP or EMS or equivalent as agreed with the Secretary, as submitted to the Secretary and amended from time to time, must be			
D7	implemented for the duration of operation and the OEMP or EMS must be made publicly available prior to the commencement of operation.			
	The following Operational Monitoring Programs must be prepared in consultation with the relevant authorities identified for each Operational Monitoring Program to compare actual operational performance against predicted performance.			
D8	into mg i rogram to compare actual operational performance against predicted performance.			
	(a) Surface Water Quality Plan & Monitoring Program: EPA, DPI Water, Sydney Water, and relevant council(s)			
	(b) Groundwater Monitoring Program: DPI Water, relevant council(s), EPA and Sydney Water			
	Each operational monitoring program must include:			
	(a) details of baseline data; (b) details of all monitoring of the project to be undertaken;			
	(c) the parameters of the project to be undertaken;			
	(d) the frequency of monitoring to be undertaken;			
D9	(e) the location of monitoring;			
	(f) the reporting of monitoring and analysis results against relevant criteria;			
	(g) details of the methods that will be employed to analyse the monitoring data;			
	(h) procedures to identify and implement additional mitigation measures where results of monitoring are unsatisfactory; and			
	(i) any consultation to be undertaken in relation to the monitoring programs.  The Operational Surface Water Quality Plan and Monitoring Program must address wetland and mosquito management.			
	The second secon			
D40				
D10				

	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA					
	The Operational Groundwater Monitoring Program must include:				
D11	(a) daily measurement of the amount of water discharged from all water treatment plants; (b) water quality testing results of the water discharged from all water treatment plants; (c) monitoring of groundwater pore pressures in the Hawkesbury Sandstone aquifers adjacent to the tunnel alignment, in consultation with DPI Water; (d) monitoring of groundwater electrical conductivity in key locations between saline water bodies and the tunnel as identified by the project groundwater model including: (i) in the Haberfield / Lilyfield area to the south of Iron Cove, (ii) in the Rozelle area to the north of Rozelle Bay, (iii) in the Rozelle area to the west of Rozelle Bay, (iv) in the Rozelle area to the south east of Iron Cove, and (v) in the St Peters area to the north west of Alexandra Canal, with a minimum of two (2) groundwater monitoring wells provided in each key location in consultation with DPI Water; (e) measures to record or otherwise estimate and report groundwater inflows into the tunnels; (f) a method for providing the data collected in (a) and (b) to Sydney Water every three (3) months to demonstrate the project's compliance with the discharge criteria and, if applicable, the Proponent's trade waste licence; and (g) a process for annually forwarding data on the monthly volume of groundwater discharged from each water treatment plant to DPI Water for a minimum period of five (5) years, consistent with Condition D12.				
D12	Groundwater monitoring must continue for a period of at least five (5) years following the completion of construction of the Rozelle Interchange (and commence once the mainline tunnels are operational). At least one (1) month prior to the end of the five (5) year monitoring period, the Proponent must undertake a review of future monitoring requirements in consultation with DPI Water. The review must determine if additional monitoring is required, and the time period for continued monitoring. The Proponent must notify the Secretary within two (2) weeks of the review as to the outcomes of the review and any requirements for future monitoring.				
D13	The Operational Monitoring Programs must be developed in consultation with relevant authorities as identified in Condition D8 of this approval.				
	The Operational Monitoring Programs must be submitted to the Secretary for approval at least one (1) month prior to the commencement of				
D14	operation.				
D15	Operation must not commence until the Secretary has approved all of the required Operational Monitoring Programs, and all relevant baseline data has been collected.				
D16	The Operational Monitoring Programs, as approved by the Secretary, must be implemented for the duration identified in the relevant Operational Monitoring Program or specified by the Secretary, whichever is the greater.				
D17	The results of the Operational Monitoring Programs must be submitted to the Secretary, and relevant regulatory authorities, for information in the form of an Operational Monitoring Report at the frequency identified in the relevant Operational Monitoring Program.				
D18	Where a relevant OEMP Sub-plan exists, the relevant Operational Monitoring Program may be incorporated into that OEMP Sub-plan.				
E1	In addition to the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1, all reasonably practicable measures must be implemented to minimise the emission of dust and other air pollutants during the construction and operation of the CSSI.				
E2	Prior to finalising the detailed design of the CSSI and establishing the ambient air quality monitoring stations required under Condition E24, the Proponent must establish an Air Quality Community Consultative Committee (AQCCC) to provide advice prior to and during the operation of the CSSI. The AQCCC must:  (a) be comprised of -  (i) two representatives from the Proponent and tunnel operator,  (ii) one representative from each of the relevant councils, whose attendance is only required when considering matters relevant to their respective local government area,  (iii) three representatives from each local community adjacent to each ventilation facility whose attendance is only required when considering matters relevant to their respective local area, and whose appointment has been approved by an expression of interest process conducted by the Proponent in consultation with the Secretary, and  (iv) a Chair who is an independent from the design and construction of the CSSI put forward by the Proponent and approved by the Secretary;  (b) meet at least four (4) times a year, or as otherwise agreed by the Chair and the Secretary;  (c) review and provide advice on the location of the air quality monitoring stations required under Condition E24, operation environmental management plans and other operation stage documents, compliance tracking reporting, audit reports, or complaints as they relate to air quality; and  (d) provide advice on the dissemination of monitoring results and other information on air quality issues.				
	The AQCCC may comprise the same members of the AQCCC established under CSSI approvals for the WestConnex M4 East and New M5 projects (SSI 6307 and SSI 6788) in relation to the ventilation outlets located in Haberfield and St Peters.				
E3	The tunnel ventilation system must be designed and operated so that the average concentrations of CO and NO2, calculated along the length of the tunnel, do not exceed the concentration limit specified for that pollutant in Table 4.  REFER TO TEXT FOR TABLE				
E4	The concentration of CO as measured at any single point in the tunnel must not exceed the concentration limit specified for that pollutant in Table 5 under all traffic scenarios.  REFER TO TEXT FOR TABLE				
E5	The tunnel ventilation system must be designed and operated so that the visibility in the tunnel does not exceed the level specified in Table 6. REFER TO TEXT FOR TABLE				

	First Conditions of Assessed	Time in a	Dannanaihilita	Ornelland States Community (Spiritual
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
COA				
	Should ambient monitoring of air pollutants exceed the following goals, the provisions of Conditions E32, E33 and E34 will apply:			
	(a) CO – 8 hour rolling average of 9.0 ppm (NEPM);			
	(b) NO2 – One hour average of 0.12 ppm (245 μg/m3) (NEPM);			
	(c) PM10 – 24 hour average of 50 μg/m3 (NEPM);			
F6	(d) PM2.5 – 24 hour average of 25 µg/m3 (NEPM);			
	(e) PM10 – annual average of 25 μg/m3 (NEPM); and			
	(f) PM2.5 – annual average of 8 μg/m3 (NEPM).			
	Note: The notification and reporting obligations under conditions E32, E33 and E34 relating to ambient monitoring will begin at the commencement			
	of operation of the CSSI. The first annual average concentrations for PM10 and PM2.5 must be calculated on the first day the project has been in			
	operation for 12 months and on a rolling basis thereafter.			
E7 E8	Conditions E3, E4, E5, and E6 do not apply in an emergency, as defined in the OEMP required by Condition D1.  The Proponent must, as soon as reasonably practicable, notify the Secretary and the EPA of any discharge during an emergency.			
LO	The tunnel ventilation systems must be designed, constructed and operated so as to only release emissions from ventilation outlets and not from			
E9	the portals or the tunnel support facilities as identified in the documents listed in Condition A1, except for emergency smoke management			
	purposes in the event of a fire in a tunnel or periodic testing of the system as defined in the OEMP required by Condition D1.			
E10	All tunnels must be designed and constructed so as to allow for future modification of the ventilation system if required. The Proponent must submit a report to the Secretary demonstrating how this will be allowed for prior to finalising detailed design.			
E11	Isubmit a report to the secretary demonstrating now this will be allowed for prior to finalising detailed design.  The tunnel ventilation outlets must be constructed at the locations specified in Appendices A, B and C.	+		
E12	The ventilation outlets must be constructed to tip heights within the following ranges:			
LIZ	REFER TO TEXT FOR TABLE			
	A Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol (Protocol) must be prepared in consultation with the TMC. The Protocol must be reviewed and endorsed by a suitably qualified and experienced independent ventilation			
E13	specialist. The Protocol must demonstrate that the ventilation and traffic management systems would operate together to ensure conditions of			
	this approval are met.			
E14	The Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol must include a commissioning procedure			
	that is to be carried out before a tunnel (or any part of it) is opened to traffic.  The Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol must be submitted to the Secretary for	+		
E15	information no later than one (1) month prior to commencement of operation of a tunnel (whether in full or in part).			
E16	The Tunnel Ventilation, Traffic Incident Response and Traffic Management Systems Integration Protocol, must be implemented for the duration of	f		
L10	operation.			
	Prior to commencing operation, a person or organisation, who is independent from the design and construction of the CSSI, whose appointment has been approved by the Secretary, must review the in-tunnel ventilation and ventilation outlet design of the project and the Tunnel Ventilation,			
	Traffic Incident Response and Traffic Management Systems Integration Protocol prepared in accordance with Condition E13 to verify that:			
	(a) the final design achieves the in-tunnel and ventilation outlet limits for all traffic conditions including congestion (as described by the regulatory			
	worst-case scenario in Chapter 9 of the EIS); (b) the predicted impacts of the final design are no greater than predicted in the documents listed in Condition A1 for the equivalent operating			
	conditions; and			
E17	(c) the ventilation system has been optimised to achieve effective and responsive treatment of in-tunnel air quality and efficient energy			
	consumption.			
	The operating scenarios used to model the final design should be the same as those used in the documents listed in Condition A1. Should the			
	design review adopt a modelling program different to that used in the EIS, the EIS predictions shall be re-modelled using the model adopted for			
	the design review, to establish the predicted outcomes under part (b).			
	The information required in this condition must be used a surflict. In the Country of the Countr			
	The information required in this condition must be made available to the Secretary on request.			
	Prior to operation, permanent signage must be installed at each surface tunnel entrance and variable messaging signage provided at regular			
	intervals throughout the tunnel to instruct tunnel users to close windows and turn on recirculated air.			
E18	Deloyant information about this instruction is to be provided an equality appropriate appropriate the provided by the Decorate which is resistant at the contract of the contr			
	Relevant information about this instruction is to be provided on a website, operated by the Proponent, which is maintained throughout operation of the CSSI.			
	Prior to operation, the Proponent must investigate, in consultation with the EPA, the measures for smoky vehicle enforcement in the tunnels. The			
E19	effectiveness of the smoky vehicle enforcement measures must be documented in the Independent Environmental Audit required under			
	Condition A36.  The Proponent must continuously monitor (by sampling and obtaining results from analysis) the pollutants within the tunnel specified in Table 7,			
	using the methods approved by the Secretary. Monitoring must commence on the first day of operation of the CSSI and continue throughout the			
E20	operation of the CSSI.			
	REFER TO TEXT FOR TABLE			
	The number and location of the monitoring stations inside the tunnel must be determined to permit an accurate calculation, per the requirements			
E21	of Conditions E3, E4 and E5, and be independently verified in accordance with a methodology developed in consultation with the EPA and approved by the Secretary prior to the operation of the CSSI. As a minimum, monitoring stations must be installed near intakes to the ventilation			
	outlets, at the entry portals and at tunnel and ramp junctions.			
	All sampling points and visibility monitoring points must be audited prior to commencing monitoring, for compliance with the requirements set			
E22	out in Conditions E3, E4, E5 and E20. Verification and compliance auditing is to be undertaken by an independent person(s) or organisation(s)			
	whose appointment has been approved by the Secretary. The independent person(s) must be a Chartered Professional Engineer (either Mechanical, Chemical or Control Systems engineer).			
E23	Air quality monitoring data is to be made available in as close to real time as possible, under the website reporting requirements of Condition E28.			
LZS				

	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA		g	,	
E24	The Proponent must monitor (by sampling and obtaining results by analysis) the pollutants and parameters specified in Table 8 using the sampling method, units of measure, and sampling frequency specified in the table. Monitoring must be undertaken at the following locations as a minimum:  (a) two ground level receptors near the Rozelle ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet; (b) two ground level receptors near the Victoria Road ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet; (c) two ground level receptors near the Campbell Road ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet with one in a location different to that established under SSI 6788; and			
	(d) two ground level receptors near the Haberfield ventilation outlet, at location suitable for detecting any impact on air quality from the outlet (these may be the same as those established under SSI 6307).  REFER TO TEXT FOR TABLE			
	The monitoring locations must be selected with the objective of achieving like-to-like comparison of monitoring results with available pre- construction data. The locations must also allow for the review of the accuracy of predicted environmental outcomes discussed in the documents referred to in Condition A1 against monitored air quality as part of the environmental audit required under Condition A36.			
E25	The location of the monitoring stations must be agreed to by the AQCCC and subject to landowner's and occupier's agreement.  The establishment and operation of the monitoring stations is to be undertaken in accordance with recognised Australian standards and undertaken by an organisation accredited by NATA for this purpose and approved by the Secretary in consultation with the EPA and the AQCCC. The quality of the monitoring results must be assured through a NATA accredited process prior to the data being considered as a basis for			
E26	compliance/auditing purposes.  The Proponent must commence monitoring for at least 12 continuous months prior to operation and continue monitoring for at least two (2) years following the commencement of operation. At the conclusion of the two (2) year operational monitoring period, the Proponent must review the need for the continued use of ambient monitoring stations in consultation with the AQCCC and EPA. Closure or discontinued use of an ambient monitoring station will require the approval of the Secretary.	,		
E27	The Proponent must develop and implement a reporting system for in-tunnel and ambient limits. The reporting system must be approved by the Secretary and fully implemented and operational prior to operation. Minimum analytical reporting requirements for air pollution monitoring stations must be as specified in the Approved Methods of Modelling and Assessment of Air Pollutants in NSW (EPA, 2007, or as updated).			
E28	Results of hourly updated real-time monitoring and relevant meteorological data must be provided on a website in an easy to interpret format. This data must be preliminary until a quality assurance check has been undertaken by a person or organisation, who is accredited by NATA for this purpose.	;		
E29	The availability of monitoring data must be conveyed to the local community by way of newsletter (including translation into common community languages in the area) and newspaper advertisement at least one month prior to the commencement of operation.			
E30	In addition to the general reporting requirements specified in Condition E27, the Proponent must notify the Secretary, EPA and Ministry of Health of any recordings above the limits specified in Conditions E3, E4 and E5 as early as possible and within 24 hours of the recorded event.  This notification must provide details of the circumstances of the event, including:  (a) the nature and location of the event, including details relating to the cause; (b) the timing and duration of the event; (c) the extent and severity of the event; (d) the measures employed to minimise the concentration levels, and measures to improve visibility levels in the event that visibility levels were above the specified limit; (e) the frequency of the event, including whether an event with the same or similar circumstances has occurred previously; and (f) the date when the Proponent will submit a Tunnel Air Quality Management Systems Effectiveness Report in accordance with Condition E31.			
E31	Within 20 working days of a request by the Secretary, the Proponent must prepare and submit to the Secretary for information a Tunnel Air Quality Management Systems Effectiveness Report on the overall system performance and cause and major contributor of any exceedances, including:  (a) the overall performance and concentration levels in the tunnel for the preceding six (6) month period (or since commencement of operation, where the CSSI has operated for under six (6) months), including average and maximum levels and time periods; (b) details of any instances throughout the operation of the CSSI where pollutant concentration levels in the tunnel have exceeded the limits specified in Conditions E3, E4 and E5; and (c) consideration of improvements to the tunnel air quality management system.  The Tunnel Air Quality Management Systems Effectiveness Report is to be prepared by the Proponent and reviewed by a suitably qualified and experienced independent specialist(s) whose appointment has been approved by the Secretary.  The Proponent must comply with any requirements arising from the Secretary's review of the Tunnel Air Quality Management Systems Effectiveness Report.			

	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA					
	The Proponent must prepare an Ambient Air Quality Goal Protocol for evaluating a potential measurement that exceeds the goals in Condition E6. The Ambient Air Quality Goal Protocol must be developed by the Proponent in consultation with the AQCCC and submitted to the Secretary for approval at least 12 months prior to the commencement of operation of the CSSI.				
	The Ambient Air Quality Goal Protocol must include:				
E32	(a) a process for notification of a recording above the ambient air quality goals in Condition E6, subject to Condition E33; (b) the template that would be used for the Report on Above-Goal Recording, required by Condition E34; and (c) a process for appointing an independent person/organisation to prepare the Report on Above-Goal Recording. The process must include (i) approval of the independent person (independent of the environmental assessment, design and construction of the CSSI) by the Secretary prior to preparation of the report, and (ii) the appointment of the independent person/organisation at least one (1) month prior to the commencement of operation, or at some other time prior to preparation of the report with the agreement of the Secretary.				
	In addition to the general reporting requirements specified in Condition E27, the Proponent must notify the Secretary, EPA and Ministry of Health of any recordings above the goals in Condition E6 as soon as possible and within 24 hours of the recording.				
	This notification must provide details of the circumstances of the event, including:  (a) the nature of the event; (b) the concentration levels that occurred; (c) the timing and duration of the event; (d) the measures employed to minimise the concentration levels; and (e) the date when the Proponent will submit a Report on Above-Goal Recording in accordance with Condition E34.				
	Within 20 working days of any Notification of Above-Goal Recording, the Proponent must prepare and submit to the Secretary for information a Report on Above-Goal Recording that details the cause and major contributor of the exceedance, the effectiveness of any action(s) taken in response to the exceedance and the options available to prevent recurrence.				
E34	Where the operation of the tunnel is identified to be a significant contributor to the recorded above-goal reading, the Report on Above-Goal Recording must include consideration of improvements to the tunnel air quality management system so as to achieve compliance with the ambient air quality goals, including but not limited to installation of the additional ventilation management facilities allowed for under Condition E10.				
E35	The provision, operation and maintenance (including all auditing and validation of data) of all air quality monitoring and reporting must be funded by the Proponent.				
E36	All continuous emissions monitoring systems installed and operated as a requirement of Condition E21 must undergo relative accuracy test audits at an interval not exceeding 12 months, or within another timeframe agreed with the Secretary.				
E37	The Proponent must engage a person independent from the design and construction of the CSSI, to audit the air quality monitoring (in-tunnel and ambient) for the CSSI at six (6) monthly intervals following commencement of operation of the CSSI, or at any longer interval if approved by the				
E38	Secretary.  The Proponent must consult with the EPA and AQCCC before nominating the proposed auditor to the Secretary. Operation of the CSSI must not commence until the auditor's appointment is approved by the Secretary. The auditor may be the same person(s) appointed under Condition E27.				
E39	The auditor must ensure that the operating procedures and equipment to acquire air monitoring, meteorological data and emission monitoring data and monitoring reporting comply with NATA (or equivalent) requirements and sound laboratory practice.				
E40	The Proponent must document the results of the audit and make available all audit data for inspection by the Secretary upon request. A copy of the audit report must also be issued to the Proponent and AQCCC.				
E41	The Proponent must undertake appropriate quality assurance (QA) and quality control (QC) measures for air quality and ventilation outlet emission monitoring data. This must include, but not be limited to: accreditation/quality systems; staff qualifications and training; auditing; monitoring procedure; service and maintenance; equipment or system malfunction; and records/reporting. The QA/QC measures must be approved by an expert independent from the design and construction of the CSSI. The independent expert must be approved by the Secretary prior to monitoring of air quality and ventilation outlet emissions, as appropriate.				
	The Proponent must assist the relevant planning authority(s) in developing an air quality assessment process for inclusion in a Development Control Plan or other appropriate planning instrument, in considering planning and building approvals for new development in areas adjacent to the ventilation outlets which would be within a potential three-dimensional zone of affectation (buffer volume).				
	This process must include procedures for identifying the width and height of buildings that are likely to be either affected by the plume from the ventilation outlet or affect the dispersion of the plume from the ventilation outlet through building wake effects. A part of this process, the Proponent must provide data detailing the results of modelling of pollution concentrations at various heights and distances from the ventilation outlets. This information must be provided within 18 months following the date of this approval. The Proponent must meet all reasonable costs for the development of this process and any necessary amendments to the planning instrument(s) required to implement the process.				
E43	During construction, where bus stops are required to be temporarily closed or relocated, such closure must not occur until relocated bus stops are functioning, have similar capacity and are relocated within a 400 metre walking distance of the existing bus stop. Closures and relocation of bus stops during construction must be undertaken in consultation with Transport for NSW and relevant council(s). Wayfinding signage must be provided directing commuters to adjacent or relocated bus stops. Footpaths must be provided to any relocated bus stops such that accessibility standards are met.				
E44	Prior to the commencement of operation of the CSSI, all bus stops temporarily closed or relocated must be reinstated in a manner that provides equal or improved capacity and accessibility (including footpaths) in consultation with Transport for NSW and relevant council(s).				
E45 E46	Access to Light Rail stops must be maintained at all times.  Access to all utilities and properties must be maintained during construction, unless otherwise agreed with the relevant utility owner, landowner or occupier.				
E47	or occupier.  Any property access physically affected by the CSSI must be reinstated to at least an equivalent standard, unless otherwise agreed by the landowner or occupier.				
E48	Bignell Lane, Camperdown, must be reinstated to its preimpact alignment and length prior to operation, unless otherwise approved by the Secretary following consultation with the relevant council.				

	Final Canditions of Australia	Timina	Despensibility	Compliance Status Comments / Evidence
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
COA				
5.10	Spoil haulage movements associated with the construction of the CSSI are not permitted to use local roads within one (1) kilometre of			
E49	construction works and construction ancillary facilities, unless approved by the Secretary.			
E50	Construction vehicles must not use Robert Street, Rozelle to access the White Bay Civil Site.			
	All requests to the Secretary for local road usage need to include a traffic and pedestrian impact assessment, and should include a swept path			
	analysis if required. The traffic and pedestrian impact assessment, incorporated in the Site Establishment Management Plan or Traffic and			
E51	Transport CEMP as relevant, must: (a) demonstrate that the local road usage will not compromise the safety of the public and have minimal amenity impacts;			
EST	(b) provide details as to the date of completion of the road dilapidation surveys for the subject local roads; and			
	(c) describe the measures that will be implemented to avoid where practicable the use of local roads past schools, aged care facilities and child			
	care facilities during peak times for operation.			
	Construction vehicles (including staff vehicles) associated with the CSSI must be managed to:			
550				
E52	(a) minimise parking on public roads;			
	(b) minimise idling and queuing on public roads; and (c) ensure spoil haulage vehicles must adhere to the nominated haulage routes identified in the Traffic and Transport CEMP.			
	The locations of all construction spoil haulage vehicles must be able to be monitored in real time and the records of monitoring be made available			
FF2	electronically to the Secretary and the EPA upon request for a period of no less than one year following construction.			
E53				
	Note: Refer to Condition A44 in relation to vehicle identification.			
	A Construction Parking and Access Strategy must be prepared and implemented to identify and mitigate impacts resulting from on- and off-street			
	parking changes during construction of the CSSI. The Strategy must include, but not necessarily be limited to:			
	(a) confirmation and timing of the removal of on- and off-street parking associated with construction of the CSSI;			
	(b) parking surveys of all parking spaces to be removed to determine current demand during peak, off-peak, school drop off and pickup, and			
	weekend periods;			
	(c) consultation with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction;			
	(d) assessment of the impacts of changes to on- and off-street parking stock taking into consideration outcomes of consultation with affected			
	stakeholders;			
E54	(e) identification of mitigation measures to manage impacts to stakeholders as a result of on- and off-street parking changes including, but not			
E54	necessarily limited to, staged removal and replacement of parking, provision of alternative parking arrangements, managed staff parking arrangements and working with relevant council(s) to introduce parking restrictions adjacent to work sites and compounds;			
	(f) provision of a shuttle bus service(s) to transport workers to site(s) and details of the shuttle bus service(s), including service timing and			
	frequency;			
	(g) mechanisms for monitoring, over appropriate intervals, to determine the effectiveness of implemented mitigation measures;			
	(h) provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and			
	(i) provision of reporting of monitoring results to the Secretary and relevant council(s) at three (3) monthly intervals.			
	The Construction Parking and Access Strategy must be submitted to the Secretary for approval at least one (1) month prior to the commencement of any works that impact parking.	t		
	or any works that impact parking.			
E55	The CSSI (including new or modified local roads, parking, pedestrian and cycle infrastructure) must be designed to meet relevant design,			
E33	engineering and safety guidelines, including the Austroads Guide to Traffic Management.			
	An independent Road Safety Audit(s) is to be undertaken by an appropriately qualified and experienced person during detailed design to assess			
FF/	the safety performance of new or modified local road, parking, pedestrian and cycle infrastructure provided as part of the CSSI (including ancillary	9		
E56	facilities) to ensure that they meet the requirements of relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Management. Audit findings and recommendations must be actioned prior to construction of the relevant infrastructure and must be made			
	available to the Secretary on request.			
	Safe pedestrian and cyclist access must be maintained around work sites during construction. In circumstances where pedestrian and cyclist			
E57	access is restricted or removed due to construction activities, an alternate route which complies with the relevant standards must be provided and	d		
	signposted.			
	The Proponent must provide improved connectivity for cyclist and pedestrians between Roberts Street and Springside Street, and incorporate			
E58	these in the Pedestrian and Cycle Implementation Strategy required by Condition E60.			
LJO	Note: This condition does not specifically require work to be undertaken in the Victoria Road reservation, but could include works on the parallel local	ıl		
	road network.			
E59	Enhanced cycle facilities at Rozelle Bay and Leichhardt North light rail stops must be investigated and implemented if possible in consultation with			
L39	Transport for NSW and incorporated into the Pedestrian and Cycle Implementation Strategy required by Condition E60.	1		
	A detailed Pedestrian and Cycle Implementation Strategy must be included as a component of the Urban Design and Landscape Plan required by			
	Condition E133 and reviewed by the Design Review Panel. The Strategy must be prepared in consultation with relevant council(s) and Bicycle NSW. The Strategy must be consistent with the Active Transport Strategy in Volume 2F, Appendix N of the EIS and must incorporate the			
	requirements of Conditions E58 and E59 and include:			
	- 1			
	(a) pedestrian and cycle engineering and safety standards;			
	(b) a safety audit of existing and proposed pedestrian and cycle facilities to address the above standards;			
E60	(c) details of selected routes and connections to existing local and regional routes;			
	(d) timing and staging of all works;			
	(e) infrastructure details, including lighting, safety, security, and standards compliance;  If signage and wayfinding measures; and			
	(f) signage and wayfinding measures; and (g) details of associated landscaping works.			
	g) action of accounted landscaping works.			
	All identified works arising from this condition are to be implemented prior to the commencement of project operations, except as permitted by			
	this approval.			
	A Road Dilapidation Report must be prepared by a suitably qualified person, for local roads (and associated infrastructure within the road reserve)			
E61	proposed to be used by heavy vehicles for works associated with the CSSI, before the commencement of use by such vehicles. Copies of the Road	1		
	Dilapidation Report must be provided to the relevant road authorities within three (3) weeks of completing the surveys and no later than one (1)			
L	month before the use of local roads by such vehicles.			

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CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
OOA				
	If damage to roads occurs as a result of the construction of CSSI, the Proponent must either:			
E62	(a) compensate the relevant road authority for the damage so caused. The amount of compensation may be agreed with the relevant road			
	authority, but compensation must be paid even if no agreement is reached; or (b) rectify the damage so as to restore the road to at least the condition it was in pre-construction.			
	Prior to the commencement of operation of the full CSSI (mainline tunnel and Rozelle Interchange), the Proponent must prepare a Road Network			
	Performance Plan in consultation with Transport for NSW and the relevant council(s). The Plan should incorporate operational traffic modelling results from the M4 East and New M5 (SSI 6307 and SSI 6788) projects, and include:			
	(a) consideration of movement and place analysis and local initiatives, such as local area improvement strategies and potential land use changes, and any traffic changes as a result of other major road projects within the project area;			
	(b) an updated analysis, including modelling of traffic impacts to the adjoining road network (including impacts on local roads from rat-running), as			
	a consequence of the CSSI; (c) an assessment of the performance of the road network, including potential 'pinch-points' where the merging of tunnel exit traffic and surface			
E63	traffic would occur at the Haberfield Interchange, the St Peters Interchange and Rozelle Interchange and Iron Cove Link; and			
	(d) mitigation measures to manage predicted traffic performance impacts including local area traffic management and bus priority measures as relevant.			
	The Road Network Performance Plan must be submitted to the Secretary and relevant council(s). The implementation of the Plan must have commenced prior to the full operation of the CSSI. The Proponent is responsible for the implementation of the identified measures under			
	Condition E63(d).			
	Note: Identified mitigation measures may need to be further assessed under the Environmental Planning and Assessment Act, 1979. Works will need			
	to meet relevant design standards and be subject to independent road safety audits.			
	The Proponent must prepare an Operational Road Network Performance Review, within 12 months and five (5) years after the commencement of operation of the full CSSI (of the mainline tunnels and Rozelle Interchange). The Review must address road network performance and review the			
	performance of the CSSI on the adjoining road network. The Review must confirm the adequacy of the mitigation measures identified in the Road			
	Network Performance Plan required under Condition E63.			
F/ 4	The Review must be undertaken in consultation with Transport for NSW and relevant council(s) and be completed within six (6) months of the			
E64	review timeframes. The Review must be provided to the Secretary within 60 days of its completion.			
	Further mitigation measures, if required, must be included in the Review. The Proponent is responsible for the implementation of the identified			
	measures.			
	Note: Identified mitigation measures may need to be further assessed under the Environmental Planning and Assessment Act, 1979. Works will need to meet relevant design standards and to subject to independent road safety audits.			
E65	In the event that the Rozelle Interchange is not open to traffic within 24 months of the opening of the mainline tunnel, an Operational Road			
L03	Network Performance Review must be prepared prior to the operation of the Rozelle Interchange.  A detailed land use survey must be undertaken to confirm sensitive receivers (including critical working areas such as operating theatres and			
	precision laboratories) potentially exposed to construction noise and vibration, construction ground-borne noise and operational noise. The			
E66	survey may be undertaken on a progressive basis but must be undertaken in any one area prior to the commencement of works which generate construction or operational noise, vibration or ground-borne noise in that area. The results of the survey must be included in the Construction			
	Noise and Vibration Management Sub-plan.			
E67	All noise and vibration assessment, management and mitigation required by this approval must consider the cumulative noise impacts of approved CSSI and SSI projects. This includes using ambient and background levels which do not include other WestConnex M4 East and New M5			
	(SSI 6307 and SSI 6788) projects. This condition applies to all works and operation.			
=	Works must be undertaken during the following construction hours:  (a) 7:00am to 6:00pm Mondays to Fridays, inclusive;			
E68	(b) 8:00am to 6:00pm Saturdays; and			
E69	(c) at no time on Sundays or public holidays.  Notwithstanding Condition E68, works may be undertaken between 1:00 pm to 6:00 pm on Saturday.			
	Notwithstanding Conditions E68 and E69 the following works are permitted to be undertaken 24 hours a day, seven days a week:			
	(a) tunnelling activities excluding cut and cover tunnelling;			
E70	(b) haulage of spoil and delivery of material; (c) works within an acoustic shed; and			
	(c) works within an acoustic shed; and (d) tunnel fit out works.			
	Other surface works associated with tunnelling must only be undertaken in accordance with the requirements of Condition E73.			
	Notwithstanding Conditions E70 and E73 spoil haulage from the Darley Road construction ancillary facility must only be undertaken during the			
E71	hours specified in Conditions E68 and E69. Onsite deliveries to the Darley Road ancillary facility may only be undertaken outside the hours specified in Conditions E68 and E69 in accordance with Condition E73(e).			
	Except as permitted by an EPL, highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be			
	undertaken:			
	(a) between the hours of 8:00 am to 6:00 pm Monday to Friday;			
E72	(b) between the hours of 8:00 am to 1:00 pm Saturday; and (c) in continuous blocks not exceeding three (3) hours each with a minimum respite from those activities and works of not less than one (1) hour			
	between each block.			
	For the purposes of this condition, 'continuous' includes any period during which there is less than a one (1) hour respite between ceasing and			
	recommencing any of the work that are the subject of this condition.			

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Cont	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA				
	Notwithstanding Conditions E68 to E72 works may be undertaken outside the hours specified under those conditions in the following			
	circumstances:			
	(a) for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or (b) where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm;			
	(b) where it is required in an emergency to avoid injury of the loss of life, to avoid damage of loss of property of to prevent environmental narm,			
	(c) where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or			
	(d) works approved under an Out-of-Hours Work Protocol for works not subject to an EPL as required by Condition E77; or			
	(e) construction that causes LAeq(15 minute) noise levels:			
E73	(i) no more than 5 dB(A) above the rating background level at any residence in accordance with the Interim Construction Noise Guideline (DECC, 2009), and	1		
270	(ii) no more than the 'Noise affected' noise management levels specified in Table 3 of the Interim Construction Noise Guideline (DECC, 2009) at			
	other sensitive land uses, and			
	(iii) continuous or impulsive vibration values, measured at the most affected residence are no more than the maximum values for human			
	exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), and (iv) intermittent vibration values measured at the most affected residence are no more than the maximum values for human exposure to			
	vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).			
	Note: Section 5.24(1)(e) of the EP&A Act requires that an EPL be substantially consistent with this approval. For example, an EPL cannot authorise			
	spoil movements at the Darley Road construction ancillary facility outside of the hours specified in Conditions E68 and E69. Out of Hours Works considered under Conditions E73(c) and (d) must be justified and include an assessment of mitigation measures.			
	On becoming aware of the need for emergency works in accordance with Condition E73(b), the Proponent must notify the AA, the ER and the EPA			
E74	of the need for that work. The Proponent must use best endeavours to notify all noise and/or vibration affected sensitive receivers of the likely			
	impact and duration of those works.			
	Out-of-hours works that are regulated by an EPL as per Condition E73(c) or through the Out-of-Hours Work Protocol as per Condition E77 include:	:		
	(a) works which could result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with			
	AS/NZS ISO 31000:2009 "Risk Management – Principles and Guidelines"; or			
	(b) where the relevant road network operator has advised the Proponent in writing that carrying out the works and activities could result in a high			
	risk to road network operational performance; or (c) where the relevant utility service operator has advised the Proponent in writing that carrying out the works and activities could result in a high			
E75	risk to the operation and integrity of the utility network; or			
	(d) where the TfNSW Transport Management Centre (or other road authority) has advised the Proponent in writing that a road occupancy licence			
	is required and will not be issued for the works or activities during the hours specified in Condition E68 and Condition E69; or			
	(e) where Sydney Trains (or other rail authority) has advised the Proponent in writing that a Rail Possession is required.			
	Note: Other out-of-hours works can be undertaken with the approval of an EPL, or through the project's Out-of-Hours Work Protocol for works not			
	subject to a EPL.			
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	In order to undertake out-of-hours work described in Condition E75, the Proponent must identify appropriate respite periods for the out-of-hours works in consultation with the community at each affected location. This consultation must include (but not be limited to) providing the			
	nours works in consultation with the community at each affected location. This consultation must include (but not be limited to) providing the community with:			
1	(a) a schedule of likely out-of-hours work for a period no less than three (3) months;			
E76	(b) the potential works, location and duration;			
1	(c) the noise characteristics and likely noise levels of the works; and (d) likely mitigation and management measures.			
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	The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour works must be provided			
	to the AA, EPA and the Secretary.			
	An Out-of-Hours Work Protocol must be prepared to identify a process for the consideration, management and approval of works which are outside the hours defined in Conditions E68 and E69, and that are not subject to an EPL. The Protocol must be approved by the Secretary prior to			
	commencement of the works. The Protocol must be prepared in consultation with the EPA and AA. The Protocol must:			
	(a) provide a process for the consideration of out-of-hours works against the relevant noise and vibration criteria, including the determination of			
	low and high-risk activities; (b) provide a process for the identification of mitigation measures for residual impacts, including respite periods in consultation with the			
E77	community at each affected location, consistent with the requirements of Condition E76;			
	(c) identify procedures to facilitate the coordination of out-of-hours works approved by an EPL to ensure appropriate respite is provided;			
	(d) identify an approval process that considers the risk of activities, proposed mitigation, management, and coordination, including where:			
	(i) low risk activities can be approved by the ER in consultation with the AA, and (ii) high risk activities that are approved by the Secretary; and			
	(e) identify Department, EPA and community notification arrangements for approved out of hours works, which maybe detailed in the			
	Communication Strategy.			
	All works undertaken for the delivery of the CSSI, including those undertaken by third parties, must be coordinated to ensure respite periods are			
	provided. The Proponent must:			
E78	(a) reschedule any works to provide respite to impacted noise sensitive receivers so that the respite is achieved in accordance with Condition E76;			
	or			
1	(b) consider the provision of alternative respite or mitigation to impacted noise sensitive receivers; and			
<u> </u>	(c) provide documentary evidence to the AA in support of any decision made by the Proponent in relation to respite or mitigation.			
	Construction Noise and Vibration Impact Statements must be prepared for construction ancillary facility(s) before any works that result in noise and vibration impacts commence, and include specific mitigation measures identified through consultation with affected sensitive			
	receivers. The Statements must supplement the Construction Noise and Vibration Management Sub-plan or Site Establishment Management			
E79	Plan(s) and are to be implemented for the duration of the works.			
	The Construction Noice and Vibration Impact Statement for the White Day Chill Site (C11) as with the construction of the City			
	The Construction Noise and Vibration Impact Statement for the White Bay Civil Site (C11) must be prepared in consultation with the Port Authority of NSW and NSW Heritage Council.			
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CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
COA				
E80	Noise generating works in the vicinity of potentially-affected community, religious, educational institutions and noise and vibration-sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres) resulting in noise levels above the NMLs must not be timetabled within sensitive periods, unless other reasonable arrangements with the affected institutions are made at no cost to the affected institution.			
	Institution.  Mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration criteria:			
E81	(a) construction 'Noise affected' noise management levels established using the Interim Construction Noise Guideline (DECC, 2009); (b) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure); (c) Australian Standard AS 2187.2 - 2006 "Explosives - Storage and Use - Use of Explosives"; (d) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and (e) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage).  Any works identified as exceeding the noise management levels and/or vibration criteria must be managed in accordance with the Construction			
	Noise and Vibration Management Sub-plan.  Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction Noise Management Level.			
	Mitigation measures must be applied when the following residential ground-borne noise levels			
	are exceeded:			
E82	(a) evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and (b) night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A).			
	The mitigation measures must be outlined in the Construction Noise and Vibration Management Sub-plan, including in any Out-of-Hours Work Protocol, required by Condition E77.			
E83	Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before works that generate vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owner and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Construction Noise and Vibration Management Sub-plan.			
F0.4	The Proponent must conduct vibration testing before and during vibration generating activities that have the potential to impact on heritage items to identify minimum working distances to prevent cosmetic damage. In the event that the vibration testing and monitoring shows that the			
E84	preferred values for vibration are likely to be exceeded, the Proponent must review the construction methodology and, if necessary, implement additional mitigation measures.			
E85	The Proponent must seek the advice of a heritage specialist on methods and locations for installing equipment used for vibration, movement and noise monitoring at heritage-listed structures.			
E86	All acoustic sheds must be erected as soon as site establishment works at the facilities are completed and before undertaking any works which are required to be conducted within the sheds.			
E87	For out-of-hours work undertaken in accordance with Condition E75, at-receiver noise mitigation in the form of at-property treatment must be offered to the land owner for habitable living spaces, or other mitigation or management measures as agreed by the occupier, to properties identified in Appendix D. Mitigation must be offered prior to out-of-hours work commencing.  This requirement does not apply if the sensitive receiver has been provided with noise mitigation under the RMS Noise Abatement Program or the			
	State Environment Planning Policy (Infrastructure) 2007 (clause 102(3)). The adequacy of at-property treatments will be reviewed where previous treatments have been installed as part of other SSI or CSSI projects.			
	Note: This condition does not preclude the application of other noise and vibration mitigation and management measures.			
	At receiver noise mitigation in the form of at-property treatment must be offered to the land owner for habitable living spaces, or other mitigation or management measures as agreed by the occupier, to residential properties identified in Appendix E. Mitigation must be offered prior to works commencing.			
E88	This requirement does not apply if the sensitive receiver has been provided with noise mitigation under the RMS Noise Abatement Program or the State Environment Planning Policy (Infrastructure) 2007 (clause 102(3)). The adequacy of at-property treatments will be reviewed where previous treatments have been installed as part of other SSI or CSSI projects.			
	Note: This condition does not preclude the application of other noise and vibration mitigation and management measures.  A Noise Insulation Program must be prepared and implemented for the duration of CSSI works for receivers at/to which the requirements of			
	Conditions E87 and E88 apply. The Program must be incorporated into the Construction Noise and Vibration Management Sub-plan.  The Noise Insulation Program must detail the following matters:			
E89	<ul><li>(a) receivers eligible for the scheme;</li><li>(b) the scope of the insulation package;</li><li>(c) responsibility for the noise insulation works;</li><li>(d) procedure and the terms of the noise insulation works;</li><li>(e) program monitoring; and</li></ul>			
	(f) program review and amendment.  The Neise Insulation Program must be endersed by the AA			
	The Noise Insulation Program must be endorsed by the AA.  Receivers which are eligible for receiving treatment under the Noise Insulation Program required under Condition E89 must have treatment			
E90	implemented within six (6) months following the commencement of construction which would affect the receiver. The implementation of the Noise Insulation Program must be prioritised based on the degree and duration of exceedance with high priority exceedances undertaken within three (3) months of the commencement of construction.			
E91	At no time can noise generated by construction exceed the National Standard for exposure to noise in the occupational environment of an eighthour (8hr) equivalent continuous A-weighted sound pressure level of LAeq.8h of 85 dB(A) for any employee working at a location near the CSSI.			
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	Final Conditions of Approval	Timing	Responsibility Compliance Status	Comments / Evidence
CoA				
	The Proponent must prepare an Operational Noise and Vibration Review (ONVR) to confirm noise and vibration control measures that would be implemented for the operation of the CSSI. The ONVR must be prepared in consultation with the Department, relevant council(s), other relevant stakeholders and the community and must:			
	(a) confirm the appropriate operational noise and vibration objectives and levels for adjoining development, including existing sensitive receivers; (b) confirm the operational noise predictions based on the final design. Confirmation must be based on an appropriately calibrated noise model (which has incorporated noise monitoring, and concurrent traffic counting, where necessary for calibration purposes). The assessment must specifically include verification of noise levels at all fixed facilities, based on noise monitoring undertaken at appropriately identified noise catchment areas surrounding the facilities;			
E92	(c) confirm the operational noise and vibration impacts at adjoining development based on the final design of the CSSI, including operational daytime LAeq,15 hour and night-time LAe, 9 hour traffic noise contours; (d) review the suitability of the operational noise mitigation measures identified in the EIS and SPIR and, where necessary, investigate and identify additional noise and vibration mitigation measures required to achieve the noise criteria outlined in the NSW Road Noise Policy (DECCW, 2011) and NSW Industrial Noise Policy (EPA, 2000), including the timing of implementation;			
	(e) include a consultation strategy to seek feedback from directly affected landowners on the noise and vibration mitigation measures; and (f) procedures for the management of operational noise and vibration complaints.			
	The ONVR is to be verified by a suitably qualified and experienced noise and vibration expert. The ONVR is to be undertaken at the Proponent's expense and submitted to the Secretary for approval prior to the implementation of mitigation measures.			
	The Proponent must implement the identified noise and vibration control measures and make the ONVR publicly available.			
E93	Noise mitigation measures as identified in Condition E92 that will not be physically affected by works, or which have not been implemented in accordance with Conditions E87 and E88 must be implemented within six (6) months of the commencement of construction in the vicinity of the impacted receiver to minimise construction noise impacts, and detailed in the Construction Noise and Vibration Management Sub-plan for the CSSI.			
E94	Where implementation of operational noise mitigation measures are not proposed early in accordance with Condition E93, the Proponent must submit to the Secretary a report providing justification as to why, along with details of temporary measures that would be implemented to reduce construction noise impacts, until such time that the operational noise mitigation measures identified in Condition E92 are implemented. The report must be endorsed by the AA and submitted to the Secretary prior to the commencement of construction which would affect the identified sensitive receivers.			
	Within 12 months of the commencement of operation of the CSSI, the Proponent must undertake monitoring of operational noise to compare actual noise performance of the CSSI against the noise performance predicted in the review of noise mitigation measures required by Condition E92.  The Proponent must prepare an Operational Noise Compliance Report to document this monitoring. The Report must include, but not necessarily be limited to:			
	(a) noise monitoring to assess compliance with the operational noise levels predicted in the review of operational noise mitigation measures required under Condition E92; (b) a review of the operational noise levels in terms of criteria and noise goals established in the NSW Road Noise Policy 2011; (c) methodology, location and frequency of noise monitoring undertaken, including monitoring sites at which CSSI noise levels are ascertained,			
E95	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 CSSI 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 noise monitoring and 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 mitigation measures; and (g) identification of additional measures to those identified in the review of noise mitigation measures required by Condition E92, that would be			
	implemented with the objective of meeting the criteria outlined in the NSW Road Noise Policy (EPA, 2011) and Industrial Noise Policy (EPA, 2000), when these measures would be implemented and how their effectiveness would be measured and reported to the Secretary and the EPA.			
	The Operational Noise Report must be submitted to the Secretary and the EPA within 60 days of completing the operational noise monitoring and made publicly available.  If blasting is proposed a Blast Management Strategy must be prepared and must include:			
E96	(a) sequencing and review of trial blasting to inform blasting; (b) regularity of blasting;			
	(c) intensity of blasting; (d) impact mitigation measures including periods of relief; and (e) blasting program.			
E97	The Blast Management Strategy must be endorsed by a suitably qualified and experienced person and reviewed by an independent specialist.			
E98	The Blast Management Strategy must be prepared in accordance with relevant guidelines and in consultation with the EPA to ensure that all blasting and associated activities are carried out so as not to generate unacceptable noise and vibration impacts or pose a significant risk to sensitive receivers.			
E99	The Blast Management Strategy must be submitted to the Secretary for information no later than one (1) month prior to the commencement of blasting. The Strategy as submitted to the Secretary, must be implemented for all blasting activities.  Blasting associated with the CSSI must only be undertaken during the following hours:			
	(a) 9:00 am to 5:00 pm, Monday to Friday, inclusive;			
E100	(b) 9:00 am to 1:00 pm, Saturday; and (c) at no time on Sunday or on a public holiday; or as authorised through an EPL if blasting is proposed outside of these hours.			
	This condition does not apply in the event of a direction from police or other relevant authority for safety or emergency reasons to avoid loss of life, property loss and/or to prevent environmental harm.			

	Final Canditions of Annexas	Timina	Dogwanaihility	Campliance Status Comments / Evidence
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
COA				
	A geotechnical model of representative geological and groundwater conditions must be prepared prior to excavation and tunnelling to identify			
	geological structures and groundwater features. The model must include details of proposed excavations and tunnels, construction staging, and			
E101	identify surface and sub-surface structures, including any specific attributes, which may be impacted by the CSSI. The Proponent must use this			
	model to assess the cumulative predicted settlement, ground movement, stress redistribution and horizontal strain profiles caused by excavation and tunnelling, including groundwater drawdown and associated impacts, on adjacent surface and sub-surface structures.			
	and turnering, including groundwater drawdown and associated impacts, on adjacent surface and sub-surface structures.			
	The Proponent must undertake a review of surface and sub-surface structures at risk from damage to determine appropriate criteria to prevent			
E102	damage, prior to excavation and tunnelling works that may pose a settlement risk. Criteria for surface and sub-surface structures which are not			
	included in Condition E103 (Table 9) must be determined in consultation with the owner(s) of the surface and sub-surface structures prior to			
	commencement of any excavation or tunnelling works potentially affecting the surface and sub-surface structures.  In the case of buildings, roads, parking areas and parks, the appropriate criteria which governs the greatest risk of damage are to be selected from			
F102	Table 9 (Maximum Settlement, Maximum Angular Distortion or Limiting Tensile Strain) unless the Proponent has determined more stringent			
E103	criteria as a result of Condition E102.			
	REFER TO TEXT FOR TABLE			
	Should the geotechnical model in Condition E101 identify exceedances of the relevant criteria established by Conditions E102 and E103, the Proponent must implement an instrumentation and monitoring program to measure settlement, distortion or strain as required. The Proponent			
	must also identify and implement appropriate mitigation measures in consultation with the owner(s) of the relevant surface and sub-surface			
E104	structures prior to excavation and tunnelling works to ensure where possible that the surface and sub-surface structures will not experience			
L104	exceedances of the relevant criteria.			
	The adented criteria does not remove any responsibility from the Dreamont fee the protection of which we will be seen as the second of the sec			
	The adopted criteria does not remove any responsibility from the Proponent for the protection of existing surface and sub-surface structures or for rectifying any damage to surface and sub-surface structures resulting from the CSSI.			
	The Proponent must offer pre-dilapidation surveys and must undertake and prepare pre-dilapidation reports where the offer is accepted, on the			
	current condition of surface and sub-surface structures identified as at risk from settlement or vibration by the geotechnical model			
E105	described in Condition E101. The pre-dilapidation surveys and reports must be prepared by a suitably qualified and experienced person(s) and			
	must be provided to the owners of the surface and sub-surface structures for review prior to the commencement of potentially impacting works.			
	Where pre-dilapidation surveys have been undertaken in accordance with Condition E105, subsequent post-dilapidation surveys must be			
E106	undertaken to assess damage to the surface and sub-surface structures that may have resulted from the construction of the CSSI within three (3)			
	months of the completion of construction.  The results of the surveys must be documented in a Condition Survey Report for each surface and sub-surface structure surveyed. Copies of the			
E107	Condition Survey Reports must be provided to the owner(s) of the structures surveyed within three (3) weeks of completing the surveys and no			
2.07	later than four (4) months following the completion of construction.			
	Where damage has been determined to occur as a result of the project, the Proponent must carry out rectification at its expense and to the			
E108	reasonable requirements of the surface and sub-surface structure owner(s) within three (3) months of completion of the post-dilapidation			
	surveys unless another timeframe is agreed with the owner of the affected surface or sub-surface structure.  The Proponent must establish an Independent Property Impact Assessment Panel before works that have the potential to result in property			
	impacts commence. The Panel must comprise geotechnical and engineering experts independent of the design and construction team. The			
	Panel will be responsible for independently reviewing Condition Survey Reports undertaken under Conditions E105 and E106, the resolution of			
	property damage disputes, and the establishment of ongoing settlement and vibration monitoring requirements. The Secretary must be informed			
	of the Panel Members prior to property impact.			
E109	Either the affected owner or the Proponent may refer unresolved disputes arising from potential and/or actual property impacts to the Panel for			
	resolution. All costs incurred in establishing and implementing the Panel must be borne by the Proponent regardless of which party makes a			
	referral to the Panel.			
	The mitigation measures SE3, SE4 and SE5 in Chapter 29 of the EIS must be actioned for at least six (6) months following the final acquisition of			
E110	residential and business-related properties.		<u> </u>	
	Land considered surplus to needs for the operation of the motorway, as identified in the documents listed in Condition A1, as well as the			
E111	opportunity sites in Rozelle as identified in Appendix L (Volume 2F of the EIS) and land not occupied by operational infrastructure at			
	construction site C7, and that is not retained by the Proponent, is to be considered residual land and managed in accordance with Condition E112.			
	A Residual Land Management Plan (RLMP) must be prepared in consultation with the relevant council(s) and government agencies. The RLMP			
	must be submitted to the Secretary for approval at least 12 months prior to the commencement of operation of the CSSI. The RLMP must identify			
	(and consider), but not be limited to:			
	(a) identification and illustration of all residual land following construction of the CSSI, including the physical location, land use characteristics, size			
	and adjacent land uses;			
E112	(b) identification of feasible uses for each piece of residual land guided by relevant environmental planning instruments and			
	(i) the Eastern City District Plan (or where updated),  (ii) The Pays Precinct Urban Transformation Program (or where updated)			
	(ii) The Bays Precinct Urban Transformation Program (or where updated), (iii) Parramatta Road Corridor Urban Transformation Strategy, and			
	(iv) other strategic planning documents applicable to any residual land from the CSSI;			
	(c) identification of residual land that does not have feasible development potential; and			
	(d) timeframes for implementing the various components of the RLMP.  Residual land that is to be used for a public use and/or transferred to a public authority is to be in a condition suitable for end use that does not			
E113	incur additional cost to the public authority to reasonably rehabilitate the land for the future development identified in the RLMP.			
	All residual land identified for open space uses in accordance with an approved RLMP must be made available to the relevant council or public			
F44.4	authority within 12 months of the completion of construction.			
E114				
	All residual land is to be managed in accordance with the maintenance requirements of the UDLP until such time as it is transferred to a differing			
E115	owner or authority in accordance with the RLMP, unless otherwise agreed with the Secretary (and any relevant authority to own the land).			
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	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA				
	The CSSI must be constructed in a manner that minimises visual impacts of construction sites, including, providing temporary landscaping and			
	vegetative screening of the construction sites, minimising light spill, and incorporating architectural treatment and finishes within key elements of			
E116	temporary structures that reflect the context within which the construction sites are located.			
E117	The Proponent must investigate, and implement where reasonable, opportunities to consolidate operational ancillary facilities at the Rozelle Rail			
<b></b>	Yards to maximise the amount of open space across the site.  The ventilation outlets at Rozelle and Iron Cove must incorporate a living vertical garden over their total areas. Notwithstanding, a reduced			
	coverage or an alternative living green design treatment (such as wall climbers or landscape shielding) can be implemented subject to review by			
E118	the Design Review Panel. The green elements are to be an integrated part of the architectural composition in aesthetic balance with the non-green	n		
	elements and addressing key view corridors.			
E119	The design of the landscape verge associated with the Iron Cove Link (Area 01, figure 5.24 of Appendix L, Volume 2F of the EIS) must maximise			
	planting opportunities.			
	A pedestrian and cycling green link, as described in the EIS, to be provided from the Rozelle Rail Yards and spanning City West Link to the park adjacent Chapman Road, must have adequate soil depth to facilitate planting across the bridge of a diverse range of vegetation consistent with the			
E120	cross section provided at Figure 5.8 of Appendix L, Volume 2F of the EIS. The bridge must be a minimum width of 15 metres, where the pedestrian			
	and cycling green link spans from Rozelle Rail Yards across the City West Link including the slip lane onto The Crescent, unless otherwise agreed by			
	the Secretary.			
	The connection between the pedestrian and cycling green link and the park adjacent to Chapman Road must be designed to integrate with the		-	
E121	open space and active transport infrastructure within the park in a manner that maximise the safe movement of pedestrians and cyclists and			
-	provide a contiguous path between the Rozelle Rail Yards open space and the park adjoining Chapman Road.  The Proponent must construct and operate the CSSI with the objective of minimising light spillage to residential properties. All lighting associated			
	with the construction and operation of the CSSI must be consistent with the requirements of Australian Standard 4282-1997 Control of the			
E122	obtrusive effects of outdoor lighting and relevant Australian Standards in the series AS/NZ 1158 – Lighting for Roads and Public Spaces.			
	Notwithstanding, the Proponent must provide mitigation measures to manage any residual night lighting impacts to protect properties adjoining			
	or adjacent to the CSSI, in consultation with affected landowners.			
	The Proponent must construct and operate the CSSI with the objective of avoiding adverse or distracting lighting configuration, spillage or			
E122	intensity to aircraft operations. All lighting associated with the construction and operation of the CSSI must adhere to the Lighting in the Vicinity of			
E123	Aerodromes: Advice to Lighting Designer (CASA, 1999) and National Airports Safeguarding Framework Guideline E: Managing the Risk of Distractions to Pilots from Lighting in the Vicinity of Airports (DIRD, 2012). Notwithstanding, the Proponent must provide mitigation measures to			
	manage any residual night lighting impacts to protect aircraft operations, in consultation with CASA and DIRD.			
	Notwithstanding Condition E123, the Proponent must consult with CASA, DIRD and Sydney Airport Operators prior to the commencement of			
E124	construction to determine the need and potential positioning of aviation hazard lighting on any equipment or built form component associated			
	with the CSSI where such consultation deems it necessary.			
E125	The Proponent must establish a Design Review Panel during detailed design and prior to construction.			
E126	During design development of the CSSI, the Design Review Panel must review the design (excluding the tunnels between portals) to assess whether it is consistent with the commitments and outcomes made in the documents listed in Condition A1.			
	The Design Review Panel must refine the design objectives for place making, public realm and urban and heritage interpretation applicable to the			
	length of the project and provide advice on the application of the objectives to key design elements in relation to place making, architecture,			
E127	heritage, urban and landscape design and public art and aesthetic aspects of the CSSI. The Panel must also review all Urban Design and Landscape			
	Plan(s) prior to these being submitted to the Secretary. Evidence of this review and the Proponent's consideration of the review is to be provided			
	to the Secretary.			
	The Design Review Panel must be comprised of, a suitably qualified, experienced and independent professional in each of the fields of:			
	(a) architecture;			
	(b) urban design;			
	(c) landscape design; and			
	(d) Aboriginal cultural heritage and non-Aboriginal heritage.			
E128				
20	The NSW Government Architect (or representative) is to be the Chair of the Panel.			
	The Proponent and its contractor(s) are to be invited onto the Panel as observers only and to provide technical advice. The Proponent is to			
	provide independent secretarial resources to the Panel.			
	The Design Review Panel may seek specialist advice from UrbanGrowth NSW (when the Panel convenes to discuss matters relating to the Rozelle			
	Rail Yards and its surrounds).			
E129	The Design Review Panel members must be nominated by the Proponent and approved by the Secretary in accordance with the timeframes in			
	Condition E125.  Nomination and appointments of the Design Review Panel must comply with the Public Service Commission's Appointment Standards: Boards and			
E130	Information and appointments of the Design Review Panel must comply with the Public Service Commission's Appointment Standards: Boards and Committees in the NSW Public Sector guideline.			
	Once the Design Review Panel is composed, and prior to the detailed design of the CSSI, a Design Review Panel Terms of Reference is to be			
	developed and endorsed by all panel members. The Terms of Reference must be submitted to the Secretary for information and:			
E131	(a) establish best practice governance and protocols for the operation of the Design Review Panel;			
	(b) include a Code of Conduct; (c) autiliar the agreed frequency of Design Poview Penel meetings, coordinated with Prepanent program requirements, to ensure timely educe.			
	(c) outline the agreed frequency of Design Review Panel meetings, coordinated with Proponent program requirements, to ensure timely advice and design adjustment; and			
	and design adjustment; and (d) outline secretariat functions and administration including the recording and storing of meeting agendas, minutes and actions.			
F400	The Design Review Panel is to be operated and managed in accordance with the approved Design Review Panel Terms of Reference and in			
E132	accordance with the NSW Government Boards and Committees Guidelines (Department of Premier and Cabinet, September 2015).	<u> </u>		
	An Urban Design and Landscape Plan(s) (UDLP) must be prepared based on the detailed design, and in accordance with the project objectives, and			
E133	the commitments made in Chapters 13 and 29 of the EIS and updated in Part E of the SPIR.			
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	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA					
	The Urban Design and Landscape Plan(s) must be prepared by a suitably qualified and experienced person(s) in consultation with the relevant				
	council(s), UrbanGrowth NSW, the community and affected landowners and businesses. The UDLP(s) must include, but not				
	necessarily be limited to:				
	Objectives, Principles and Standards  (a) demonstrated consideration of design objectives, principles and standards including:				
	(i) local environmental and heritage values,				
	(ii) urban design context,				
	(iii) sustainable design and maintenance,				
	(iv) community safety, amenity and privacy including 'safer by design' principles where relevant,				
	(v) relevant design standards and guidelines,				
	(vi) prioritising the visual amenity and values of adjoining receivers over the road user experience,				
	(vii) minimising the footprint of the project (including operational facilities), and				
	(viii) the urban design principles outlined in the document referred to in Condition A1, and				
E134	(ix) the urban design principles outlined in Better Placed and Greener Places by the NSW Government Architect; and (x) DRP review.				
	Consultation				
	(b) details of where and how recommendations from the Design Review Panel have been incorporated into the plan;				
	(c) evidence of consultation with the relevant council(s), UrbanGrowth NSW and the community on the proposed urban design and landscape				
	measures, prior to finalisation of the UDLP, and details of how the outcomes of this consultation have informed the development of the UDLP;				
	Context and Form				
	(d) an analysis of the built, natural and community context and the urban design objectives, principles and standards for the CSSI;				
	(e) detailed consideration of integration and continuity with urban design and landscape outcomes for the M4 East and New M5 projects taking				
	into account the respective UDLP(s) for each project;				
	(f) landscaping and building design opportunities to mitigate the visual impacts of road infrastructure and operational fixed facilities (including				
	ventilation outlets, tunnel portals, Motorway Operations Complexes, noise walls etc.), including i) building placement, designs and landscaping that are reflective of the local built form,				
	ii) a living vertical garden(s) or alternative treatment for ventilation outlets consistent with the requirements of Condition E118,				
	Access				
	The Urban Design and Landscape Plan(s), and its sub-plans, must be reviewed by the Design Review Panel. The Proponent must respond to the		1		
5405	outcomes of the Design Review Panel's review and submit the UDLP to the Secretary for approval no later than one (1) month prior to				
E135	the construction of permanent built surface works that are the subject of the Urban Design and Landscape Plan(s) (in the area to which the UDLP				
	applies) or earth works for the final surface contouring of the Rozelle Rail Yards open space, whichever is the sooner.				
	Construction of permanent built works or landscaping that are the subject of the Urban Design and Landscape Plan must not be commenced (in				
E136	the area to which the UDLP applies) until the Urban Design and Landscape Plan(s) has been approved by the Secretary, after taking into				
	consideration advice received from the Design Review Panel.				
E137	The Urban Design and Landscape Plan(s), as approved by the Secretary, must be implemented during construction, as required, and operation.				
	Existing residential properties (and approved residential developments, at the time of this approval) that are affected by overshadowing from the				
	CSSI (including any noise mitigation measures) are to receive a minimum of three (3) hours of direct sunlight in habitable rooms and in at least 50%				
	of the principal private open space area between 9:00 am and 3:00 pm on 21 June. Such properties must be identified for further consideration by				
	the Proponent in a Solar Access and Overshadowing Report which addresses compliance with these requirements.				
	The Solar Access and Overshadowing Report must be reviewed by the Design Review Panel. The Proponent must respond to the outcomes of the				
	Design Review Panel's review and then submit the Report to the Secretary prior to the commencement of construction of any				
	structures that may cause overshadowing of residential premises, whenever is the sooner and must include:				
	(a) identification of potentially affected properties;				
	(b) assessment of the detailed design's compliance at each property, informed by –				
E138	(i) a review of the habitable rooms within structures,				
	(ii) the size and nature of private open spaces, and				
	(iii) shadow diagrams in plan and elevation at hourly intervals between 9:00 am and 3:00 pm on 21 June; and				
	(c) a consultation plan to detail how potential impacts and mitigation measures will be discussed and negotiated with potentially affected				
	landowners in the event that compliance with this condition is not achieved.				
	Whore existing residential development currently receives less than the required amount of color access, existing access to suplich the old not be				
	Where existing residential development currently receives less than the required amount of solar access, existing access to sunlight should not be unreasonably reduced.				
	unicasonabily reduced.				
	Where affected properties include dwellings held under strata or community title, this condition must be interpreted in relation to individual units				
	within those properties.				
	The ongoing maintenance and operation costs of urban design, open space, landscaping and recreational items and works implemented as part of				
E139	this approval will remain the Proponent's responsibility until satisfactory arrangements have been put in place for the transfer of the asset to the				
	relevant authority. Prior to the transfer of assets, the Proponent will maintain items and works to at least the design standards established in the				
	Urban Design and Landscape Plan, and its sub-plans, required by Condition E133.				

	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
CoA			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	A Utilities Management Strategy must be prepared and implemented for all utility works. The Strategy must identify how utility works will be defined and managed.			
E140	The Utilities Management Strategy must include: (a) a definition of low impact utility work. The definition must consider parameters including, but not limited to, type of works, duration of works, hours of works, noise impacts, and traffic and access impacts; (b) the functions of the Utility Coordination Manager as required by Condition E141; (c) a description of all utility works to be undertaken, including low impact utility works and how they meet the definition in subclause (a); and (d) the management measures that will be implemented to manage dust, noise, traffic, access and lighting impacts associated with low impact utility works.			
	The Utilities Management Strategy must be submitted to the Secretary for approval at least one (1) month prior to the commencement of low impact utility works.  Note: Utility works that are not low impact are construction and appropriate management measures would be included in the CEMP.			
	A Utility Coordination Manager must be appointed for the duration of the CSSI works. The role of the Utility Coordination Manager must include,			
	but not be limited to:			
E141	(a) the management and coordination of all utility works associated with the delivery of the CSSI, to ensure respite is provided to the community, as required under Condition E75; (b) providing advice to the Public Liaison Officer(s), regarding upcoming utility works, including the scope of the works and responsibility for the works; and (c) investigating complaints received from the Community Complaints Mediator or the Public Liaison Officer(s), relating to utility works, and			
	providing a response to the Community Complaints Mediator or Public Liaison Officer(s).  Prior to operation, the Proponent must prepare an Emergency Response Plan, in consultation with FRNSW and NSW Police Force.			
	The Emergency Response Plan must include, but not be limited to: (a) protocols and procedures to be followed during emergency situations associated with the operation of the project (including fires, explosions			
E142	and, for the purposes of this condition, vehicle collisions). The protocols and procedures are to take into account the needs of people with a disability or who may experience access problems in emergency situations; (b) details of traffic management measures to be implemented during emergencies, where appropriate, to minimise the potential for escalation of the emergency;			
	(c) design and management measures for containment of contaminated fire-fighting water, fuel spills and gaseous combustion products; (d) details of a training and testing program to ensure that - (i) all operational staff familiar with the Emergency Response Plan, and (ii) coordination with FRNSW and NSW Police is regularly exercised; and			
	(e) provision for a simulated emergency response exercise, including the Proponent, FRNSW and NSW Police, to be conducted in accordance with the approved Emergence Response Plan on at least one occasion prior to the opening of the tunnel to traffic. The time for the exercise is to be agreed by the participants.			
E143	Fire simulation and hot smoke testing must be undertaken as part of the simulated emergency response exercise to be staged prior to opening of the project to traffic as required in Condition E142(e).			
E144	The Proponent must undertake annual Hazard Reviews of the project for the first five (5) years of operation. The Hazard Review must detail all hazardous incidents that have occurred during the preceding period, identify safety measures required to rectify those incidents, and address any			
E145	A Hazard Review Report, outlining the results of the Hazard Review, and any proposed additional safety measure(s) to be implemented in response to the findings of the Hazard Review, must be submitted to FRNSW no later than one (1) month after the review period.			
E146	The Proponent must develop a Fire Engineering Brief and Fire Engineering Report to address fire and life safety in the tunnel, in consultation with FRNSW. The documents must be prepared prior to finalising the relevant design details for the tunnel. The documents must outline fire protection			
E147	In developing the Fire Engineering Brief and Fire Engineering Report, the Proponent must undertake a detailed Fire Engineering Study in accordance with Australian Building Codes Board codes and guides, and Fire Safety Engineering Guidelines. Detailed design of the tunnel			
F140	Prior to the opening of the project to traffic, a full audit of the fire and life safety system as defined by the Fire Engineering Study required by Condition E147 must be undertaken by an Accredited Fire Engineer. The objective of the audit must be to ensure that all design and operational measures outlined in the fire engineering study has been installed, are operational, and achieve the required design criteria.			
E148	The results of the audit must be submitted to FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations resulting from the FRNSW review of the audit.			
	A detailed maintenance-testing program outlining the methods of testing the fire and life safety systems and schedule for implementation must be developed in consultation with FRNSW prior to opening of the project to traffic.			
E149	The Proponent must respond in writing to any recommendations made by FRNSW.			
E150	Maintenance testing of fire and life safety systems must be undertaken at least annually, or any other interval as required by the design engineer and in consultation of FRNSW.			
LIOU	Results of maintenance testing must be made available to FRNSW for review, and the Proponent must respond in writing to any recommendations from FRNSW to ensure the reliability of the fire and life safety systems.  The CSSI must be designed so that the following flooding characteristics are not exceeded on adjacent lands / properties:			
E151	(a) a maximum increase in inundation time of one hour in a 1 in 100 year ARI rainfall event; (b) a maximum increase of 10 mm in inundation at properties where floor levels are currently exceeded in a 1 in 100 year ARI rainfall event;			
	(c) a maximum increase in 50 mm in inundation at properties where floor levels would not be exceeded in a 1 in 100 year ARI rainfall event; and (d) no inundation of floor levels which are currently not inundated in a 1 in 100 year ARI rainfall event.			

	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA		9		John philando Grando	
E152	Flood information including flood reports, models and geographic information system outputs, and work as executed information from a registered surveyor certifying finished ground levels and the dimensions and finished levels of all structures within flood prone land, must be provided to the relevant council(s) and the SES. The relevant council(s) and the SES must be notified in writing that the information is available no later than one (1) month following the completion of construction and be provided with that information. Information requested by the relevant council(s) or the SES must be provided no later than six (6) months following the completion of construction or within another timeframe agreed with the relevant council(s) and the SES.				
E153	The Proponent must prepare a Flood Review Report(s) after the first defined flood event for any of the following flood magnitudes – the 5 year ARI event, 20 year ARI event, 100 year ARI event and probable maximum flood – to assess the actual flood impact against that predicted in the documents referred to in Condition A1. The Flood Review Report(s) must be prepared within three (3) months of each flood event. The report(s) must prepared by an appropriately qualified person(s) and include:  (a) identification of the properties and infrastructure affected by flooding during the reportable event; (b) a comparison of the actual extent, level, velocity and duration of the flooding event against the impacts predicted in the documents referred to in Condition A1 and the requirements specified in Condition E151; and (c) where the actual extent and level of flooding exceed the predicted level and / or the requirements specified in Condition E151, with the consequent effect of adversely impacting on property(s), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding related to the CSSI works, including the timing and responsibilities for implementation.  Flood mitigation measures must be developed in consultation with the affected property / structure / infrastructure owners and the relevant council(s).  A copy of the Flood Review Report(s) must be submitted to the Secretary and relevant council(s) within one (1) months of finalising the report(s).				
E154	The Proponent must not destroy, modify or otherwise physically affect any heritage items, including human remains, outside of the CSSI boundary.				
E155	The Proponent must not to harm, modify, or otherwise impact human remains uncovered during the construction of the CSSI.				
E156	Identified impacts to heritage items and heritage conservation areas must be minimised through both detailed design and construction. The measures for ensuring this are to be detailed in the Construction Non-Aboriginal Heritage Management Sub-Plan and Aboriginal Cultural Heritage Management Sub-Plan required by Conditions C4(g) and (h), respectively.  An Unexpected Heritage Finds Procedure must be prepared:				
E157	(a) to manage unexpected heritage finds in accordance with any guidelines and standards prepared by the Heritage Council of NSW or OEH; and (b) by a suitably qualified and experienced heritage specialist.  The Procedure must be included in the Construction Non-Aboriginal Heritage Management Sub-plan and Aboriginal Cultural Heritage Management Sub-Plan required by Conditions C4(g) and (h).  Note: Human remains that are found unexpectedly during works are under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.				
	The Proponent must not destroy, modify or otherwise cause direct damage to the following items:				
E158	(a) Southern Penstock associated with White Bay Power Station; and (b) 5 Lilyfield Road, Rozelle.				
E159	The Proponent must undertake a condition survey of the Southern Penstock and establish and maintain a suitable exclusion zone around the penstock for the duration of construction. The extent of the exclusion zone must be determined in consultation with the Heritage Division of OEH.				
E160	The Proponent must investigate the feasibility of retaining Cadden Le Messurier (84 Lilyfield Road), Former Hotel (78 Lilyfield Road) and the facade of the former Bank of NSW building (164 Parramatta Road) during detailed design.				
E161	Works on Whites Creek Stormwater Channel No. 95 must be undertaken in consultation with Sydney Water and a suitably qualified and experienced heritage consultant. The consultation process must include consultation on the final design and location of the works. All reasonable steps must be undertaken to ensure that the lateral extent and degree of impact to the canal fabric is minimised.				
E162	Prior to conducting acoustic treatment at any heritage item identified in the documents listed in Condition A1 the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work minimises any adverse impacts on the heritage significance of the item.				
	The Proponent must prepare a Heritage Archival Recording and Salvage Report, including photographic recording of heritage items which have been identified for demolition in the documents referred to in Condition A1 and outline how any salvage or recovery of material will be undertaken from these items.				
E163	Archival recording must be undertaken by a suitably qualified heritage specialist and prepared in accordance with NSW Heritage Office's How to Prepare Archival Records of Heritage Items (1998) and Photographic Recording of Heritage Items Using Film or Digital Capture (2006).				
	Within 12 months of completing the archival recording, the Proponent must submit the Heritage Archival Recording and Salvage Report to the Secretary, relevant council(s), relevant local libraries and local historical societies in the respective local government area(s).  Archival recording as required by Condition F142 must also be undertaken for the Coddon Le Mossuriar, former Herel and the former Pank of				
E164	Archival recording as required by Condition E163 must also be undertaken for the Cadden Le Messurier, former Hotel and the former Bank of NSW building, should these structures be demolished.				
	Following archival recording as required by Condition E163, and prior to demolition, the Proponent must assess options for sympathetic reuse (including integrated heritage displays and interpretation) on the project or other options for conservation, including architectural salvage for reuse in comparable buildings and display.				
E165	Where salvage supports good conservation outcomes, the material is to be collected and stored in suitable repository locations established in consultation with relevant council(s). The salvage from any State-listed items or elements must be determined in consultation with the Heritage Division of OEH.				
	Any residual items and materials are to be made available, through a process to be developed by the Proponent in consultation with the relevant council(s), to landowners within the locality from where the material originated.				

	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA					
E166	The Proponent must investigate options for utilising salvaged rail related infrastructure from the Rozelle Rail Yards into the landscaping of the Rozelle Rail Yards. How the items are to be used is to be detailed in the Urban Design and Landscape Plan required by Condition E133.				
	The Proponent must prepare a Heritage Interpretation Plan, as committed to in the SPIR (NAH02) which identifies and interprets the key heritage values and stories of heritage items and heritage conservation areas impacted by the CSSI. The Heritage Interpretation Plan must include, but not be limited to:				
E167	(a) a discussion of the key interpretive themes, stories and messages proposed to interpret the history and significance of the affected heritage items and sections of heritage conservation areas; and (b) identification of interpretive initiatives implemented to mitigate impacts to archaeological relics, heritage items and conservation areas affected by the CSSI.				
E168	Prior to works that have a direct material impact on a Historical Archaeological Management Unit (HAMU), the Proponent must engage a suitably qualified archaeologist whose experience complies with the Heritage Council of NSW's Criteria for Assessment of Excavation Directors (July, 2011) (referred to as the Excavation Director) to oversee and advise on matters associated with historic archaeology and to prepare an Historical Archaeological Research Design and Excavation Methodology.				
	The Historical Archaeological Research Design and Excavation Methodology must to be submitted to the Heritage Council of NSW (or its delegate) for review and comment prior to finalisation. The Historical Archaeological Research Design and Excavation Methodology must:  (a) be consistent with the NSW Heritage Council's Archaeological Assessments Guideline (1996) or as updated;				
E169	<ul> <li>(b) provide for the detailed analysis of any heritage items discovered during the investigations;</li> <li>(c) include management options for discovered heritage items, whether known or unexpected finds (including options for avoidance, salvage, relocation and display);</li> <li>(d) for unexpected finds that are determined to be relics, set out the assessment process that will determine an appropriate archaeological response to managing their significance;</li> <li>(e) include procedures for notifying the Heritage Council of NSW (or its delegate) and Secretary of any relic findings; and</li> <li>(f) if the findings of the investigations are significant, provide for the preparation and implementation of a Heritage Interpretation Plan, as</li> </ul>				
E170	required under Condition E167.  Where excavation works are required in the vicinity of potential archaeological sites, the Excavation Director must be consulted to advise on how the works are to be managed and any archaeological impact minimised. The Excavation Director must be given the authority to advise on the duration and extent of oversight required during excavation.				
E171	Works within the vicinity of the find must not recommence until the relevant requirements of the Historical Archaeological Research Design and Excavation Methodology or advice on unexpected finds from the Excavation Director have been met.				
E172	The Proponent must prepare an Archaeological Excavation Report containing the findings of any excavations, including artefact analysis and the identification of a final repository of any finds. The report must be submitted to the Secretary within 12 months of completing all archaeological investigations. The Archaeological Excavation Report must also be submitted to the Heritage Council of NSW, the local library and the local Historical Society in the relevant local government area(s). A copy of the Archaeological Excavation Report must be retained with the relics at all times.				
E173	The Proponent must take all reasonable steps so as not to harm, modify or otherwise impact any Aboriginal object associated with the CSSI except as authorised by this approval.				
E174	The clearing of native vegetation must be minimised with the objective of reducing impacts to any threatened species, populations and ecological communities to the greatest extent practicable. Impacted vegetation must be rehabilitated with endemic species (in the first instance) and locally native species to the greatest extent practicable.				
E175	Prior to removing/clearing any vegetation, or demolition of structures identified as potential roosting sites for microbats, pre-clearing/demolition inspections for microbats and threatened species must be undertaken. The inspections, and any subsequent relocation of species and associated management/offset measures, must be undertaken under the guidance of a suitably qualified and experienced ecologist. Surveys for the presence of microbat roosting must be undertaken to cover the period of roosting, under guidance of a suitably qualified and experienced. Survey methodologies must be incorporated into the Construction Flora and Fauna Management Sub-plan required under Condition C4 and Site Establishment Management Plan required under Condition C22, as relevant.				
E176	The Proponent must prepare a Microbat Management Strategy in the case that microbats or evidence of roosting are identified during pre- clearing/demolition surveys. The strategy must detail short- and long-term measures to avoid, minimise and mitigate impacts to these species.				
E177	The CSSI must be designed to retain as many trees as possible. Where trees are to be removed, the Proponent must provide a net increase in the number of replacement trees. Replacement trees must be planted within, and on public land up to 500 metres from the CSSI boundary. Replacement tree plantings can be undertaken beyond 500 metres on public land within the local government areas to which the CSSI approval applies if no more plantings are practicable within and up to 500 metres from the CSSI boundary. The location of the trees must be determined in consultation with the relevant authority(s).				
E178	Replacement trees are to have a minimum pot size of 75 litres except where the plantings are consistent with the pot sizes specified in a relevant authority's plans / programs / strategies for vegetation management, street planting, or open space landscaping, or as agreed by the relevant authority(s).				
E179	The Proponent must submit to the Secretary a report which details the type, size, number and location of replacement trees. The report must demonstrate how any replacement plantings with a pot size less than 75 litres are consistent with the requirements of Condition E178. The report must be submitted to the Secretary one (1) month prior to operation.				
E180	All reasonably practicable erosion and sediment controls must be installed and appropriately maintained to minimise any water pollution. When implementing such controls, any relevant guidance in the Managing Urban Stormwater series must be considered.				
E181	A Site Contamination Report, documenting the outcomes of Phase 1 and Phase 2 contamination assessments of land upon which the CSSI is to be carried out, that is suspected, or known to be, contaminated must be prepared by a suitably qualified and experienced person in accordance with guidelines made or approved under the Contaminated Land Management Act 1997 (NSW).				
E182	If a Site Contamination Report prepared under Condition E181 finds such land contains contamination, a site audit is required to determine the suitability of a site for a specified use. If a site audit is required, a Site Audit Statement and Site Audit Report must be prepared by a NSW EPA Accredited Site Auditor. Contaminated land must not be used for the purpose approved under the terms of this approval until a Site Audit Statement is obtained that declares the land is suitable for that purpose and any conditions on the Site Audit Statement have been complied with.				
E183	A copy of the Site Audit Statement and Site Audit Report must be submitted to the Secretary and relevant council for information no later than one (1) month prior to the commencement of operation.				
E184 E185	An Unexpected Contaminated Land and Asbestos Finds Procedure must be prepared and must be followed should unexpected contaminated land or asbestos be excavated or otherwise discovered during construction.  The Unexpected Contaminated Land and Asbestos Finds Procedure must be implemented throughout construction.				
E186	The CSSI construction water treatment plant discharge criteria must comply with the ANZECC (2000) 90 per cent species protection level unless an EPL is in force in respect to the CSSI. Discharge criteria for iron during construction must comply with the ANZECC (2000) recreational water quality criteria.				

	First Conditions of Assessed	Time in	Danie and Italian	Compliance Chatter Community (Friday)
CoA	Final Conditions of Approval	Timing	Responsibility	Compliance Status Comments / Evidence
	The CSSI operational water treatment plant discharge criteria must comply with the ANZECC (2000) 95 per cent species protection level and a 99			
E187	per cent protection level for contaminants that bioaccumulate unless other discharge criteria are agreed in consultation with relevant stakeholders including EPA, DPI Water and Sydney Water. Discharge criteria for iron during operation must comply with the ANZECC (2000)			
	recreational water quality criteria.			
E188	Drainage feature crossings (permanent and temporary watercourse crossings and stream diversions) and drainage swales and depressions must			
E189	be undertaken in accordance with relevant guidelines and designed by a suitably qualified and experienced person.  Works on waterfront land must be undertaken in accordance with DPI controlled activity quidelines.			
E109	The Proponent must take all practicable measures to limit operational groundwater inflows into each tunnel to no greater than one litre per			
F100	second across any given kilometre (1L/s/km). Compliance with this condition cannot be determined by averaging groundwater inflows across the			
E190	length of the tunnel.			
	The Proponent must identify and commit to the implementation of 'make good' provisions for groundwater users in the event of a decline in			
E191	water supply levels, quality and quantity from registered existing bores associated with groundwater changes from either construction and/or ongoing operational dewatering caused by the CSSI.			
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	The Proponent must undertake further modelling of groundwater drawdown, tunnel inflows and saline water migration (using particle tracking)			
	prior to finalising the design of the tunnels and undertaking any works that would impact on groundwater flows or levels. The modelling must be			
E192	undertaken in consultation with DPI Water and include the results and hydrogeological analyses of at least 12 continuous months of current			
	baseline groundwater monitoring data from bores identified in the EIS and SPIR. The modelling must also include data from any other existing monitoring bores identified in consultation with DPI Water, as required to supplement baseline			
	data.			
	The results of the groundwater modelling must be documented in a Groundwater Modelling Report. The Groundwater Modelling Report must be			
	finalised in accordance with the Australian Groundwater Modelling Guidelines (National Water Commission, 2012) and prepared			
	in consultation with DPI Water. The Groundwater Modelling Report must include, but not be limited to: (a) justification for layer choice;			
	(b) specification and justification of the grid based hydraulic conductivity and storage parameters (specific yield and specific storage) assigned to			
	each layer and/or zone with reference to those values determined from data analyses and the literature;			
	(c) an explanation of how groundwater flow was simulated within each model layer with reference to confined, unconfined or variably saturated flow solutions;			
	(d) an explanation and justification of the drain-cell conductance term(s) applied to the tunnel boundaries to limit tunnel inflows;			
	(e) an explanation and justification of the groundwater recharge values applied across the model domain, including around the modelled specific			
	yield values and the water table fluctuations observed within the monitoring data in response to rainfall-fed groundwater recharge;			
	(f) details (including figures) of the expected changes in groundwater flow directions in the vicinity of landfills, groundwater wells and surface water receptors;			
E193	(g) cross-section diagrams of geology showing baseline groundwater levels in the monitoring piezometres, and for the predicted baseline			
	condition groundwater levels in 2030 and 2100;			
	(h) statistical evaluation of the model's calibration; (i) details of the groundwater monitoring data inputs (levels and quality);			
	(i) details of the proposed groundwater model update and validation as additional data is collected;			
	(k) assessment of impacts of groundwater drawdown, taking into consideration the NSW Aquifer Interference Policy (DPI, 2012), including			
	potential impacts on licensed bores and groundwater dependent ecosystems; (I) a comparison of the results with the modelling results detailed in the documents referred to in Condition A1; and			
	(m) documentation of any additional measures that would be implemented to manage and/or mitigate groundwater impacts not previously			
	identified.			
	A copy of the Croundwater Medalling Deport must be submitted to the Copy for a final size the tripped design. The Copy district that a life-			
1	A copy of the Groundwater Modelling Report must be submitted to the Secretary prior to finalising the tunnel design. The Groundwater Modelling Report must include details of consultation with DPI Water.	3		
	The groundwater model must be updated once 24 months of construction groundwater monitoring data are available and the results of the			
E194	updated modelling provided to the Secretary and DPI Water in an updated Groundwater Modelling Report.			
	The Proponent must undertake further hydrological and hydraulic modelling based on the detailed design of the CSSI to determine the ability of		1	
E195	the receiving drainage systems to effectively convey pavement drainage from the CSSI. The modelling must be undertaken in			
,,	consultation with the relevant council(s) and Sydney Water and the outcomes documented in the Stormwater Drainage Report required under Condition E196.			
<u> </u>	The Stormwater Drainage Report must be prepared at least one (1) month prior to the commencement of any new drainage works, modifications		+	
	or connections to existing drainage works, or construction of hard surfaces that are associated with the operation of the project and would result			
	in runoff to existing stormwater drainage systems. The Stormwater Drainage Report must:			
E196	(a) assess the potential impacts of pavement drainage discharges from the CSSI drainage systems on the receiving environment and capacity of			
,,	council or Sydney Water drainage infrastructure;			
	(b) identify all mitigation measures to be implemented where pavement drainage from the CSSI drainage systems is predicted to adversely impact			
	on the receiving environment or capacity of council or Sydney Water drainage infrastructure; and (c) set out a clear time frame for the implementation of mitigation measures.			
	All new or modified drainage systems associated with the CSSI must be designed to:			<del>                                     </del>
	(a) meet the capacity constraints of any council's drainage system to receive and convey the proposed flows from the CSSI, or otherwise upgrade			
E107	council's drainage system at the Proponent's expense, in consultation with the relevant council(s);  (b) minimize impacts on the receiving any irrepresent at the final outflow point resulting from any additional flow you was final out not limited.			
E197	(b) minimise impacts on the receiving environment at the final outflow point resulting from any additional flow volume (including, but not limited to scour, flooding, water quality impacts, and impacts on riparian vegetation, aquatic ecology and property); and			
	(c) ensure mitigation measures are implemented where increased flows through cross drainage systems adversely impact on council or Sydney			
	Water drainage infrastructure and the receiving environment.			

	Final Conditions of Approval	Timing	Responsibility	Compliance Status	Comments / Evidence
CoA	· mai conditions of Approval	······g	responsibility	Compilarios Status	Communics, Establish
COA					
	The Proponent must prepare a Water Reuse Strategy which sets out options for the reuse of collected stormwater and groundwater during				
	construction and operation of the CSSI. The Water Reuse Strategy must include, but not be limited to:				
	3				
	(a) evaluation of reuse options;				
	(b) details of the preferred reuse option(s), including volumes of water to be reused, proposed reuse locations and/or activities, proposed				
	treatment (if required), and any additional licences or approvals that may be required; and				
	(c) a time frame for the implementation of the preferred reuse option(s).				
F100	The Water Reuse Strategy must consider public health risks from water recycling and must be managed to avoid misuse of recycled water as potable water. The Water Reuse Strategy must be undertaken following best practice and advice from sought from relevant agencies as required.				
E198	potable water. The water keuse strategy must be undertaken following best practice and advice from sought from relevant agencies as required.				
	Justification must be provided in the event that it is concluded that no reuse options prevail.				
	and the state of t				
	A copy of the Water Reuse Strategy must be submitted to the Secretary for approval prior to commencement of tunnelling works.				
	Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction and operational phases of the construction and operational phases of the condition of the construction of t				
	the CSSI. Where a separate Strategy is prepared for the operation of the CSSI, this must be submitted to the Secretary for approval at least six (6)				
	months prior to the commencement of operation of the CSSI.				
	A Sustainability Strategy must be prepared to achieve a minimum "Excellent" 'Design' and 'As built' rating under the Infrastructure Sustainability				
E199	Council of Australia infrastructure rating tool.				
	The Sustainability Strategy must be submitted to the Secretary for information prior to the commencement of works, and must be implemented				
E200	throughout construction and operation.				
L200					
E201	Opportunities to reduce operational greenhouse gas emissions must be investigated during detailed design. The sustainability initiatives identified				
	must be implemented, reviewed, updated regularly throughout the design development and construction.  Waste generated during delivery of the CSSI is to be dealt with in accordance with the following				
	priorities:				
E202	(a) waste generation is to be avoided and where avoidance is not reasonably practicable, waste generation is to be reduced;				
E202	(b) where avoiding or reducing waste is not possible, waste is to be re-used, recycled, or recovered; and				
	(c) where re-using, recycling or recovering waste is not possible, waste is to be treated or disposed of at a waste management facility or premise				
	lawfully permitted to accept the materials or in accordance with a Resource Recovery Exemption or Order issued under the				
	Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste.				
F202	Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except				
E203	as expressly permitted by a licence or waste exemption under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste.				
	All waste generated during construction and operation must be classified in accordance with the EPA's Waste Classification Guidelines, with				
E204	appropriate records and disposal dockets retained for audit purposes.				
	Early of the second of an annual commencers and ballions.	1	_ t		

<ul><li>Appendix C Revised Environmental Management Measures</li><li>Compliance Table</li></ul>

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
TT01	A Construction Traffic and Access Management Plan (CTAMP) will be prepared as part of the CEMP. The CTAMP will include the guidelines, general requirements and principles of traffic management to be implemented during construction. It will be prepared in accordance with Austroads Guide to Road Design (with appropriate Roads and Maritime supplements), the RTA Traffic Control at Work Sites Manual and AS1742.3: Manual of uniform traffic control devices – Part 3: Traffic control for works on roads, and any other relevant standard, guide or manual. The CTAMP will be prepared in consultation with relevant transport stakeholders and local councils.  The overarching strategy of the CTAMP will be to:  - Ensure relevant stakeholders are considered during all stages of the project  - Provide safe routes for pedestrians and cyclists during construction  - Develop construction methodologies so that interaction with existing road users is minimised thereby creating a safer work and road user environment  - Plan and stage works to minimise the need for road occupancy, where possible  - Develop project staging plans in consultation with relevant traffic and transport stakeholders  - Minimise the number of changes to the road users' travel paths and, where changes are required, develop and implement an effective community communication strategy, coupled with temporary wayfinding signage to warn, inform and guide. This will aim to minimise confusion by providing clear and concise traffic management schemes  - Comprehensively communicate changes in traffic conditions to emergency services, public transport operators, other road user groups and any other affected stakeholders				
TT02	Identify potential road user delays during the planning and consultation phases and include strategies within the CTAMP to reduce identified delays.				
TT03	Develop construction staging and temporary works that minimises conflicts with the existing road network and maximises spatial separation between work areas and travel lanes.				
TT04	The car parking strategy described in the CTAMP will:  - Quantify construction workforce parking demand around project work sites and ancillary facilities during site establishment and the construction phase generally  - Identify public transport options and other management measures (such as carpooling and shuttle-buses) to reduce construction workforce parking demand  - Identify all locations that will be used for construction workforce parking (including potential use of government owned land and other potential areas near to the construction ancillary facilities)  - Identify potential offsite areas that could be used for construction workforce parking that would be investigated and secured for use during construction where required and possible  - Identify parking exclusion zones, in consultation with potentially affected stakeholders, around construction sites and facilities where construction workforce parking would be restricted.  The strategy will also be developed in consultation with the M4 East and New M5 contractors to identify opportunities to use existing parking arrangements associated with those projects during				
TT05	Isolate work areas from general traffic through the implementation of appropriate traffic and access controls.				
TT06	Develop and implement work methods to minimise delays and road user impacts, for example utilising more efficient plant and equipment, and applying different design solutions.				
TT07	Provide temporary closed-circuit television (CCTV) and Variable Message Signs (VMS) in consultation with the Traffic Management Centre (TMC) to link with the existing TMC network to facilitate real time monitoring and management of impacts and traffic safety in the vicinity of the During construction, work with the TMC to improve traffic conditions around work and incidents from CCTV footage and modify sites wherever practicable.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
TT09	Provide a mechanism for the community to report incidents and delays, for example a project				
	phone number. Advertise details along the construction site's interface with the road network.				
TT10	Schedule construction-related transport movements to avoid peak traffic periods and minimise project-related congestion, where possible.				
TT11	Develop and adopt robust community and stakeholder communication protocols regarding altered traffic conditions.				
ke	Minimise impacts on the pedestrian paths and cycle lanes, and provide timely alternatives during construction where practical and safe to do so.				
TT13	Identify impacts on bus stops and provide alternative locations and access in consultation with Transport for NSW.				
TT14	Manage local road closures and maintain adequate property access. This will be undertaken in consultation with Roads and Maritime, local councils and property owners likely to be impacted.				
TT15	Identify spoil haulage routes and designated routes for other project-related heavy vehicles and communicate, along with site access requirements and restrictions, to all relevant drivers.  Designated heavy vehicle routes will be identified with consideration of potentially affected stakeholders, such as schools, day care centres, nursing homes and places of worship, around project sites that might be adversely affected by project-related heavy vehicle movements.				
TT16	Routes and associated restrictions of use of the routes will be developed to minimise identified  Develop and implement a truck management strategy (as part of the CTAMP) that:  - Identifies truck marshalling areas that will be used by project-related heavy vehicles  - Describes management measures for project-related heavy vehicles to avoid queuing and site-circling in adjacent streets and other potential traffic and access disruptions  - Describes monitoring programs to demonstrate that project-related heavy vehicles are				
TT17	Monitor and manage project-related heavy vehicle movements to and from sites with the aim of limiting any associated increases in road traffic noise levels during the night-time period to no more than 2 dBA. Any increases in road traffic noise of more than 2 dBA due to project-related vehicle movements will be managed in accordance with the Construction Noise and Vibration				
TT18	Prepare a road dilapidation report, in consultation with relevant councils and road owners, identifying existing conditions of local roads and mechanisms to repair damage to the road network caused by heavy vehicle movements associated with the project.  Roads and Maritime will continue to consult with the Port Authority of NSW and other				
TT19	stakeholders as appropriate to ensure coordination between the operation of the White Bay civil site (C11) and other relevant projects in the vicinity, including existing operations associated with port activities.				
TT20	An Active Transport Network Implementation Strategy will be prepared for the project. The strategy will be consistent with the Active transport strategy in Appendix N of the EIS. The strategy will be prepared in consultation with relevant councils and Bicycle NSW and implemented prior to the commencement of project operations or as otherwise agreed to by the Secretary of NSW Department of Planning and Environment.				
OpTT1	A review of operational network performance will be undertaken 12 months and five years from the opening of the project to confirm the operational impacts of the project on surrounding arterial roads and major intersections in proximity to the Wattle Street interchange, Rozelle interchange and St Peters interchange. The assessment will be based on updated traffic surveys at the time and the methodology used will be comparable with that used in this assessment. The				
OpTT2	To manage potential performance constraints at the Wattle Street interchange, Roads and Maritime will investigate the implementation of the following in consultation with local councils:  - Queuing and capacity monitoring and management on the Frederick Street/Milton Street corridor  - Managing lane use and utilisation to improve the operation of the corridor.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
ОрТТ3	Roads and Maritime will develop a strategy to ensure appropriate network integration in the areas surrounding the Rozelle interchange. The strategy will include a review of:  - Capacity improvement measures  - The interface with road based public transport on the Western Distributor and Victoria Road in				
AQ1	consultation with Transport for NSW  A Construction Air Quality Management Plan will be developed and implemented to monitor and manage potential air quality impacts associated with the construction for the project. The				
	management plan will include controls required to reduce the emission of dust out of the door openings of acoustic sheds. The Plan will be implemented for the duration of construction.				
AQ2	Regular communication to be carried out with other WestConnex projects under construction in close proximity to ensure that measures are in place to manage cumulative dust impacts.				
AQ3	Regular site inspections will be conducted to monitor potential dust issues. The site inspections, required actions and ongoing issues will be recorded and actioned appropriately within agreed timeframes by relevant project personnel.				
AQ4	Construction activities with the potential to generate dust will be modified or ceased during unfavourable weather conditions to reduce the potential for dust generation.				
AQ5	Measures to reduce potential dust generation, such as the use of water carts, sprinklers, dust screens and surface treatments, will be implemented within project sites as required.				
AQ6	Access roads within project sites will be maintained and managed to reduce dust generation.				
AQ7	Where reasonable and feasible, appropriate control methods will be implemented to minimise dust emissions from the project site.				
AQ8	Storage of materials that have the potential to result in dust generation will be minimised within project sites at all times.				
AQ9	All construction vehicles and plant will be inspected regularly and maintained to ensure that they comply with relevant emission standards.				
AQ10	Engine idling will be minimised when plant is stationary, and plant will be switched off when not in use to reduce emissions.				
AQ11	The use of mains electricity will be favoured over diesel or petrol-powered generators where practicable to reduce site emissions.				
AQ12	Haul roads will be treated with water carts and monitored during earthworks operations, ceasing works if necessary during high winds where dust controls are not effective.				
AQ13	Suitable dust suppression and/or collection techniques will be used during cutting, grinding or sawing activities likely to generate dust in close proximity to sensitive receivers.				
AQ14	The potential for dust generation will be considered during the handling of loose materials. Equipment will be selected and handling protocols developed to minimise the potential for dust generation.				
AQ15	All loaded spoil haulage trucks and other project-related heavy vehicles carrying materials with the potential to result in dust generation will be covered to prevent dust emissions during transport in accordance with relevant road regulations.				
AQ16	Demolition activities will be planned and carried out to minimise the potential for dust generation.				
AQ17	Adequate dust suppression will be applied during all demolition works required to facilitate the project.				
AQ18	All potentially hazardous material will be identified and removed from buildings in an appropriate manner prior to the commencement of and/or progressively during demolition and in accordance with all relevant codes of practice				
AQ19	Areas of soil exposed during construction will be minimised at all times to reduce the potential for dust generation.				
AQ20	Exposed soils will be temporarily stabilised during weather conditions conducive to dust generation and prior to extended periods of inactivity to minimise dust generation.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
AQ21	Exposed soils will be permanently stabilised as soon as practicable following disturbance to				
7.021	minimise the potential for ongoing dust generation.				
AQ22	Ensure that stockpiles of materials with the potential to result in dust emissions are adequately				
	protected and managed to reduce potential dust generation.				
AQ23	Ensure fine materials are stored and handled to minimise dust.				
AQ24	All sealed surfaces within sites and site accesses will be managed to reduce dust generation and				
AQ25	sediment tracking onto roads  At the commencement of establishment of project ancillary facilities, controls such as wheel				
AQ25	washing systems and rumble grids will be installed at all site exits to prevent deposition of loose				
	material on sealed surfaces outside project sites to reduce potential dust generation.				
	initiation and source survivious project shoes to reduce percential dust generation.				
AQ26	Tunnel infrastructure will be designed in such a way that the generation of pollutant emissions				
	by the traffic using the tunnel is minimised. The main considerations are minimising gradients				
	and ensuring that lane capacity remains constant or increases from entry to exit point.				
AQ27	An in-tunnel air quality monitoring system will be included in the detailed design. The system will				
	monitor oxides of nitrogen, nitrogen dioxide, carbon monoxide and visibility (as a minimum)				
	throughout the tunnel.				
	Monitoring of each pollutant will be undertaken throughout the tunnel. The locations of				
	monitoring equipment will generally be at the beginning and end of each ventilation section. This will include, for example, monitors at each entry ramp, exit ramp, merge point and ventilation				
	exhaust and supply point. The location of monitors will be governed by the need to meet the in-				
	tunnel air quality criteria for all possible journeys through the tunnel system, especially for				
	nitrogen dioxide. This will require sufficient, appropriately placed monitors to calculate a journey				
	average.				
AQ28	Air velocity monitors will be placed in each tunnel ventilation section and at portal entry and exit				
	points. The specific location of air velocity monitors will be subject to the detailed design of the				
	project. The velocity monitors in combination with the air quality monitors will be used to				
	modulate the ventilation within the tunnel to manage air quality and to ensure net air inflow at				
AQ29	all tunnel portals.  Ambient air quality monitoring will be carried out in the vicinity of the ventilation outlets				
AQ27	installed as part of the project. Monitoring will occur at key representative locations, identified in				
	consultation with an independent air quality specialist and an Air Quality Community				
	Consultative Committee (AQCCC), to allow direct comparison of measured ambient air quality				
	with dispersion model predictions. The monitoring will commence at least 12 months prior to				
	and continue for at least two years following the commencement of operation. Monitoring				
NV1	results and a comparison of monitoring results against dispersion model predictions and relevant A suitably qualified and experienced Acoustics Advisor, who is independent of the design and				
INVI	construction personnel, will be engaged for the duration of construction of the project. The				
	Acoustics Advisor will be responsible for:				
	- Reviewing management plans related to noise and vibration and endorsing that they address all				
	relevant conditions of approval and requirements of all applicable guidelines				
	- Reviewing location and activity specific noise and vibration impact assessments prepared during				
	the project and endorsing the assessments and proposed mitigation measures				
	- Reviewing proposals regarding works outside standard construction hours, confirming that the				
	works are appropriate and endorsing the proposed mitigation measures				
	<ul> <li>Monitoring noise and vibration from construction generally and:</li> <li>Confirming that actual noise and vibration levels and impacts are consistent with predictions</li> </ul>				
1	- Confirming that actual noise and vibration nevers and impacts are consistent with predictions - Confirming that reasonable and feasible noise and vibration mitigation measures are being				
1	implemented				
1	- Suggesting additional reasonable measures to further reduce impacts				
	- Monitoring and providing advice in relation to compliance with conditions of approval and				
	project commitments related to noise and vibration				
	- Providing advice in relation to complaints regarding noise and vibration impacts that cannot be				
	resolved between the complaint and the project				
	- Reviewing and endorsing the proposed operational noise controls, the associated noise model				
	and the proposed implementation program	l			

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
NV2	A Construction Noise and Vibration Management Plan (CNVMP) will be prepared for the project. The plan will:  - Identify relevant performance criteria in relation to noise and vibration  - Identify noise and vibration sensitive receivers and features in the vicinity of the project  - Include standard and additional mitigation measures from the Construction Noise and Vibration Guideline (CNVG) (Roads and Maritime 2016) and details about when each will be applied  - Describe the process(es) that will be adopted for carrying out location and activity specific noise and vibration impact assessments to assist with the selection of appropriate mitigation measures  - Include protocols that will be adopted to manage works required outside standard construction hours in accordance with relevant guidelines				
NV3	Detailed noise assessments will be carried out for all ancillary facilities required for construction of the project. The assessment will consider the proposed site layouts and noise generating activities that will occur at the facilities and assess predicted noise levels against the relevant noise management levels determined in accordance with the requirements of the Interim Construction Noise Guideline (ICNG) (NSW Department of Environment and Climate Change NSW (DECC) 2009). The assessments will be used to determine the appropriate heights and configurations of noise barriers, and other appropriate noise management measures, consistent with the requirements of the ICNG and the CNVG. Noise barriers, as confirmed through the noise assessments, will be installed as early as possible during site establishment and as a minimum prior to the commencement of excavation associated with tunnel access.				
NV4	Location and activity specific noise and vibration impact assessments will be carried out prior to (as a minimum) activities:  - With the potential to result in noise levels above 75 dBA at any receiver  - Required outside standard construction hours likely to result in noise levels greater than the relevant noise management levels  - With the potential to exceed relevant performance criteria for vibration.  The assessments will clarify predicted impacts at relevant receivers in the vicinity of the activities to assist with the selection of appropriate management measures, consistent with the requirements of ICNG and CNVG that will be implemented during the works.				
NV5	An out-of-hours works protocol will be developed for the construction of the project. The protocol will include:  - Details of works required outside standard construction hours, including justification of why the activities are required outside standard construction hours  - Measures that will be implemented to manage potential impacts associated with works outside standard construction hours  - Location and activity specific noise and vibration impact assessment process(es) that will be followed to identify potentially affected receivers, clarify potential impacts and select appropriate management measures  - Details of the approval process (internal and external) for works proposed outside standard construction hours.  The protocol will be included in the CNVMP, prepared in consultation with NSW Department of Planning and Environment and the NSW EPA, endorsed by the Acoustics Advisor for the project and implemented during construction of the project.				
NV6	Monitoring will be carried out at the commencement of activities for which a location and activity specific noise and vibration impact assessment has been prepared to confirm that actual noise and vibration levels are consistent with noise and vibration impact predictions and that the management measures that have been implemented are appropriate.  Acoustic sheds will be designed with consideration of the activities that will occur within them and the relevant noise management levels in adjacent areas. Monitoring will be carried out to confirm that the actual acoustic performance of each shed is consistent with predicted acoustic performance.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
NV8	A Blast Management Strategy will be prepared and implemented for the project if blasting is proposed. The strategy will:  - Identify relevant performance criteria in relation to potential noise and vibration impacts due to blasting with reference to (as a minimum) Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration (Australian and New Zealand Environment Conservation Council (ANZECC), 1990) and Australian Standard AS 2187.2-2006 Explosives - Environmental management measure Timing Storage, transport and use, Part 2: Use of explosives  - Describe trials that will be carried out to confirm vibration levels from blasting and facilitate development of predictive tools to allow potential noise and vibration impacts to be identified - Include details of management measures that will be implemented to ensure compliance with relevant performance criteria  - Include details of community consultation requirements prior to commencing blasting.  The Blast Management Strategy will be implemented for all blasting carried out as part of the project.				
NV9	Receivers that qualify for assessment for at receiver treatment in relation to operational noise that are also predicted to experience significant exceedances of noise management levels due to construction will be given priority preference for assessment for treatment based on the severity and timing of impact. Where the building owner accepts the at receiver treatment proposal, the treatments will be installed as soon as possible.				
NV10	Where reasonable and feasible, operational noise mitigation such as noise barriers, berms and at- property treatments identified during detailed design should be installed early in the project so as to provide a benefit to receivers during the construction phase of the project.				
NV11	Open Graded Asphalt (OGA) or equivalent will be investigated during detailed design taking into account whole life engineering considerations and the overall social, economic and environmental effects. If low noise pavement is found to be appropriate, it will be considered as a management measure when assessing operation noise impacts based on the detailed design.				
NV12	The area in the vicinity of the western portal of the Iron Cove Link, Rozelle, will be assessed further during development of the detailed design to identify appropriate noise mitigation measures to address D66predicted increases in road traffic noise to the project. The measures that will be considered will include low road noise pavement, noise barriers, at-property treatments and the project design.				
NV13	Potential operational noise performance of the project based on the detailed design will be assessed in accordance with NSW Road Noise Policy (DECCW 2011) and appropriate management measures will be confirmed and implemented.				
NV14	Within 12 months of the commencement of the operation of the project, actual operational noise performance will be compared to predicted operational noise performance. The need for any additional management measures to address any identified operational performance issues and meet relevant operational noise criteria will be assessed and implemented where reasonable and feasible.				
PL1	Land acquisition for the project will be undertaken in accordance with the Land Acquisition (Just Terms Compensation) Act 1991 (NSW) and the Roads and Maritime Services Land Acquisition Information Guide (Roads and Maritime 2014) and the land acquisition reforms announced by				
PL2	Access to all properties will be maintained during construction, where feasible and reasonable, unless otherwise agreed by the relevant property owner or occupier. Any access physically affected by the project will be reinstated to at least an equivalent standard, unless agreed with by the property owner.				

	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
REMMs Ref	Lifvii Offinerical management measure	Tilling	Responsibility	Compliance Status	Comments / Evidence
PL3	A Residual Land Management Plan will be prepared in consultation with relevant local councils and other key stakeholders. The plan will:  - Identify and illustrate all remaining project land following construction of the project, including the physical location, land use characteristics, size and adjacent land uses  - Identify feasible uses for remaining project land including justification for the selected use  - Identify timeframes for implementation of the actions in relation to the identified feasible uses.				
PL4	Existing residential properties (and residential developments approved prior to project approval) that are affected by overshadowing from the final detailed design of the project (including any noise mitigation measures) are to receive a minimum of three hours of direct sunlight in habitable rooms and in at least 50 per cent of the principal private open space area between 9.00 am and 3.00 pm on 21 June. Such properties must be identified for further consideration by the Proponent in a Solar Access and Overshadowing Report which addresses compliance with these requirements:  - Where existing residential development currently receives less than the required amount of solar access, existing access to sunlight during operation should not be unreasonably reduced. Where affected properties include dwellings held under strata or community title, these requirements must be interpreted in relation to individual units within those properties.				
PL5	Detailed design of the ventilation facility building at the Iron Cove Link motorway operations complex (MOC4) will include consideration of treatments to minimise overshadowing on properties south of Victoria Road. This may include reducing the height of the building and/or				
PL6	Ground settlement will be managed to comply with the following criteria where possible:  * As defined in Burland et al. 'Building response to tunnelling – Case Studies from construction of the Jubilee Line Extension', London, Thomas Telfor (2001)				
PL7	Further assessment of potential settlement impacts, including numerical modelling, will be undertaken during detailed design. In areas where ground movement in excess of settlement criteria are is predicted, an instrumentation and monitoring program to measure settlement, distortion or strain will be implemented. feasible and reasonable measures will be investigated and implemented to ensure where possible that the predicted settlement is within the criteria. Measures that will be considered may include (but are not limited to):  - Review of the proposed tunnel design including:  - the depth and alignment of tunnels  - the proximity of multiple tunnels to each other  - the proposed tunnel support system  - the tunnel lining to manage groundwater inflows  - Rationalising the layout of the proposed ventilation tunnels including the number, location and length of tunnels				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
PL8	A Settlement Monitoring Program will be prepared that will provide details on: - Settlement criteria and predictions - Location of monitoring points - Duration of monitoring				
	<ul> <li>Data collection (type and method)</li> <li>Comparison of actual settlement with predictions</li> <li>Triggers and corrective actions that will be implemented if, based on monitoring results, actual</li> </ul>				
	settlement is likely to exceed predictions or the relevant criteria, with the aim of complying with the criteria.  The Settlement Monitoring Program will be endorsed the Independent Property Impact				
PL9	Assessment Panel (see PL11) prior to the commencement of any construction activities with the Settlement monitoring will be carried out for the period in accordance with the program starting prior to commencement of tunnel construction through to until all settlement has stabilised following completion of tunnel construction. The results of settlement				
	monitoring will be compared to predicted settlement. The implementation and adequacy of the Settlement Monitoring Program will be monitored by the Independent Property Impact				
PL10	Building condition surveys will be offered to property owners within the zone of influence of tunnel settlement (50 metres from the outer edge of the tunnels and within 50 metres of surface works) or as otherwise directed by the Independent Property Impact Assessment Panel (see PL11). Building condition surveys of properties will be carried out prior to the commencement of any project works in the vicinity that have the potential to result in damage to the properties, as				
PL11	An Independent Property Impact Assessment Panel, will be established prior to the commencement of works with the potential to result in ground movement and settlement or damage due to vibration. The panel will be responsible for:  - Independently reviewing the building condition survey process and checking that reports are adequate to assist with any property damage disputes  - Resolving any property damage disputes  - Endorsing the Settlement Management Program and monitoring its implementation and ongoing adequacy  The panel will include at least one specialist with experience with ground movement and settlement due to excavations.				
PL12	Interface agreements will be entered into with the owners of infrastructure and utility services likely to be impacted by construction of the project. The agreements will likely identify:  - Minimum separation distances and appropriate settlement criteria for utility infrastructure  - Settlement monitoring requirements during construction  - Contingency actions in the event that settlement limits are exceeded.				
PL13	In the event that damage occurs to a property as a result of the construction of the project, the damage will be appropriately rectified. Any disputes between a property or infrastructure owners regarding damage and rectification will be referred to the Independent Property Impact Assessment Panel (see PL11) for resolution.				
PL14	The Utilities Management Strategy (Appendix F of the EIS) will be implemented.				
UD1					
	Prepare an Urban Design and Landscape Plan (UDLP) permanent built works and landscaping in consultation with relevant councils, stakeholders and the community. The construction of permanent built works will not commence until the element is included in a suitably prepared and approved UDLP, unless otherwise agreed to by the Secretary.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
UD2	Specific design measures at construction ancillary facilities to prevent crime, based on principles of Crime Prevention Through Environmental Design (CPTED), will be identified and implemented at each facility prior to the commencement of facility operation.				
UD3	Specific design measures at surface operational infrastructure will be identified and implemented to prevent crime, based on principles of CPTED, will be identified and implemented at each facility prior to the commencement of facility operation.				
UD4	Wayfinding signage for the road infrastructure will be developed to the satisfaction of Roads and Maritime. Consultation will occur with the relevant local council regarding road signs for council roads. Signage for road infrastructure will be installed prior to the commencement of operation.				
UD5	Establish an Urban Design Review Panel to provide advice and input into the development of the UDLP and associated sub-plans. Where an UDLP is required to address heritage matters, the panel will include an independent heritage architect.				
LV1	Ancillary facilities, including the locations of visible structures and plant and perimeter fencing and treatments, will be developed to minimise visual impacts for adjacent receivers where feasible and reasonable. Measures to minimise visual impacts for adjacent receivers will be implemented progressively during the site establishment phase.				
LV2	Site lighting will be designed to minimise glare issues and light spillage in adjoining properties and will be generally consistent with the requirements of Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting.				
LV3	Regular maintenance of site hoarding and perimeter site areas should be undertaken, including the prompt removal of graffiti and litter.				
LV4	Construction worksites and construction ancillary facilities will be established in such a manner as to minimise the need to remove screening vegetation wherever practicable.				
LV5	Hoardings and temporary noise walls will be erected as early as possible within the site establishment phase to provide visual screening.				
LV6	Acoustic sheds will be designed to be visually recessive and minimise potential overshadowing impacts where possible.				
LV7	Where necessary, construction lighting will comply with the requirements of the Civil Aviation Safety Authority (CASA) and Sydney Airport at all times.				
LV8	Visible elements of operational facilities will be designed to satisfy functional requirements and adopt the design principles detailed in the M4-M5 Link Urban Design Report. The proposed designs will be documented in the relevant UDLP for the project.				
LV9	The slopes of vegetated batters that form part of the final urban design and landscaping solution will be limited to no more than 1:4 where possible in order to maximise the impact of vegetation on these batters and minimise maintenance.				
LV10	Where construction ancillary facilities are located in close proximity to sensitive residential receivers such as residents and users of recreational space, high quality fencing suitable for parks and public spaces should be considered.				
LV11	Investigate options for planting of vegetation to screen residents on the southern side of Darley Road from the Darley Road motorway operations complex. Include feasible and reasonable measures in the relevant UDLP.				
LV12	Architectural design and detailing of the water treatment facility, substation and front fencing should achieve articulation, visual interest, and integrate with the streetscape.				
LV13	Integrate the new open space at Rozelle with the Lilyfield Road streetscape through considered street tree planting and associated landscape works in accordance with Austroads guidelines.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
LV14	Implement urban design and landscape measures that allow permeable views between the City				
LVIT	West Link carriageway and the new open space to provide a sense of openness and connection				
	with the open space for motorists and the community.				
LV15	Investigate measures to minimise view impacts of the project to sensitive residential receptors in				
	the vicinity of the Rozelle Rail Yards as described in this assessment and include in the relevant				
	UDLP where reasonable and feasible.				
LV16	Develop a design that aims to incorporate the ventilation outlets at the Rozelle Rail Yards as an				
	integral component of the larger open space composition, with reference and consideration to				
	the Ventilation Facility Design Review (Annexure 2 of Appendix L (Technical working paper: Urban design)).				
LV17	Consult with UrbanGrowth NSW regarding the interface between the project footprint and the				
	White Bay Power Station precinct. Design the interface to optimise compatibility between the				
	two areas from a landscaping, visual, heritage and active transport connectivity perspective.				
LV18	Investigate options to retain the mature trees of high retention value adjacent to the light rail				
2010	corridor at the corner of The Crescent and City West Link and to provide screen planting				
	alongside the retaining wall edge of the light rail corridor, to minimise landscape and visual				
	impacts. Implement options where feasible and reasonable with consideration of site constraints.				
LV19	Investigate vegetative and other screening measures along Victoria Road to improve the visual				
	amenity of the streetscape and reduce impacts associated with the ventilation outlet and				
	increased glare from the portals to residential dwellings to the north of Victoria Road.				
11/00	Reasonable and feasible landscaping measures will be included in the relevant UDLP.				
LV20 LV21	[Deleted] The UDLP sub-plan for the area adjoining Campbell Road motorway operations complex is to be				
LVZI	consistent with the New M5 St Peters Interchange Recreational Area Sub-plan				
	consistent with the New Mio St Feters interchange Near cational Air ca Sub-plan				
1.V22	Investigate massures during detailed design to reduce the height hully scale and enhance the				
LV22	Investigate measures during detailed design to reduce the height, bulk, scale and enhance the landscape setting of the ventilation outlets, subject to achieving desired ventilation outcomes,				
	and in accordance with the design principles detailed in the M4-M5 Link Urban Design Report.				
SE1	A Business Management Plan will be prepared and will include:				
	- Identification of businesses that have the potential to be adversely affected by construction				
	activities that will occur as part of the project - Management measures that will be implemented to maintain appropriate vehicular and				
	pedestrian access to businesses and business clusters during business hours and to maintain				
	visibility of the businesses and communicate access arrangements to potential customers during				
SE2	A Community Communication Strategy will be prepared that details:				
	- Procedures and mechanisms that will be implemented in response to the key social impacts				
	identified for the project				
	- Property acquisition support services that will be provided				
	- Procedures and mechanisms to communicate to project stakeholders (including affected				
	communities), the access and connectivity enhancements and new community and social				
	facilities that will be delivered as part of the project through the Social Infrastructure Plan and to update stakeholders on delivery progress				
SE3	Procedures and mechanisms that will be used to engage with affected business owners to Property acquisition will continue to be undertaken in accordance with the Roads and Maritime				
	Services Land Acquisition Information Guide (Roads and Maritime 2014), the Land Acquisition				
	(Just Terms Compensation) Act 1991 (NSW) and the land acquisition reforms announced by the				
	NSW Government in 2016 (NSW Government 2016). A property acquisition factsheet that				
CE 4	outlines the process and provides further information for concerned residents will continue to be				
SE4	Affected households will continue to have access to a counselling service that assists people through the property acquisition process.				
	this ought the property acquisition process.				
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REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
SE5	An independent service will continue to be provided to vulnerable households (eg elderly, those				
	suffering an illness) to assist with relocation. Assistance could include finding a suitable house for				
	relocation, arranging removalists, disconnecting services and attending appointments with				
SE6	A community relations support toll-free telephone line will be operated to respond to any				
	community concerns or requests for translation services.				
SE7	N/A				
OSE8	A Social Infrastructure Plan will be prepared that details:				
	- Measures that will be delivered as part of the project to improve community connectivity in				
	areas affected by the project, including pedestrian and cyclist access				
	- Community and social facilities, for example open space, that will be delivered or enhanced as				
	part of the project				
	- Community initiatives and programs that will receive support as part of the project, including				
014/04	the manner in which support will be provided.				
SW01	A Construction Soil and Water Management Plan (CSWMP) will be prepared for the project. The				
	plan will include the measures that will be implemented to manage and monitor potential				
	surface water quality impacts during construction. The CSWMP will be developed in accordance				
	with the principles and requirements in Managing Urban Stormwater – Soils and Construction, Volume 1 (Landcom 2004) and Volume 2D (NSW Department of Environment, Climate Change				
	and Water 2008), commonly referred to as the 'Blue Book'.				
SW02	A program to monitor potential surface water quality impacts due to the project will be				
3002	developed and included in the CSWMP. The program will include the water quality monitoring				
	parameters and the monitoring locations identified in Annexure E of Appendix Q (Technical				
	working paper: Surface water and flooding) to the EIS where appropriate. The monitoring				
	program will commence prior to any ground disturbance to establish appropriate baseline				
	conditions and continue for the duration of construction and until the affected waterways are				
	rehabilitated to an acceptable condition as certified by a suitably qualified and experienced				
SW03	Erosion and Sediment Control Plans (ESCPs) will be prepared for all work sites in accordance with				
	the Blue Book. ESCPs will be implemented in advance of site disturbance and will be updated as				
0)4/0.4	required as the work progresses and the sites change.				
SW04	A soil conservation specialist will be engaged for the duration of construction to provide advice				
SW05	regarding erosion and sediment control.  The extent of ground disturbance and exposed soil will be minimised to the greatest extent				
3000	practicable to minimise the potential for erosion.				
SW06	Disturbed ground and exposed soils will be temporarily stabilised prior to extended periods of				
3000	site inactivity to minimise the potential for erosion.				
SW07	Disturbed ground and exposed soils will be permanently stabilised and proposed landscaped				
	areas will be suitably profiled and vegetated as soon as possible following disturbance to				
	minimise the potential erosion.				
SW08	The proposed bridge crossing over and widening of Whites Creek, including all associated				
	temporary and permanent infrastructure, will be designed and constructed in a manner				
	consistent with:				
	- Controlled Activities on Waterfront Land, Guidelines for watercourse crossings on waterfront				
	land (NSW Department of Primary Industries (DPI) 2012)				
	- Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings				
	(Fairfull and Witheridge 2003)				
	- Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries February 2004)				
	- Policy and Guidelines for Fish Habitat Conservation and Management Update 2013 (DPI-				
	Fisheries 2013).				
CMOO	- Appropriate fish passage will be provided for crossings of fish habitat streams.				
SW09	Consultation will be undertaken with Sydney Water regarding the timing of the works at Whites				
	Creek and compatibility of the proposed design and Sydney Water's naturalisation works.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
	Temporary construction water treatment plants will be designed and managed so that treated water will be of suitable quality for discharge to the receiving environment.  An ANZECC (2000) species protection level of 90 per cent is considered appropriate for adoption as discharge criteria for toxicants where practical and feasible. The discharge criteria for the treatment facilities will be included in the CSWMP.				
	Procedures, prepared in accordance with the requirements of the Acid Sulfate Soil Manual (Acid Sulfate Soil Management Advisory Committee 1998), will be included in the CSWMP and implemented in the event that acid sulfate soils, rocks or monosulfidic black oozes are				
	Stormwater from the project during operation will be treated prior to discharge. Where space is available, bioretention systems or constructed wetlands will be installed. Where space is not available, other smaller devices, such as proprietary stormwater treatment devices, will be installed. The final design of treatments will be supported by MUSIC modelling and water sensitive urban design principles.				
OSW13	Maintenance requirements for all stormwater treatment systems and devices installed as part of the project will be identified and included in relevant operational maintenance schedules/systems.				
	Spill containment will be provided on the motorway. Spill management and emergency response procedures will be documented in the Operation Environmental Management Plan (OEMP) and/or Emergency Response Plan.				
	The constructed wetland at the Rozelle interchange will be appropriately designed considering Water Sensitive Urban Design Principles to cater for the continuous release of treated groundwater from the water treatment plant and onsite stormwater flows and lined to prevent				
	The operational water treatment facilities will be designed and managed such that effluent will be of suitable quality for discharge to the receiving environment. Opportunities to incorporate nutrient treatment within the plant at Darley Road will be investigated during detailed design. Discharge criteria will be developed in accordance with the ANZECC (2000) and relevant NSW WQOs, including the following discharge criteria:  - 0.3 milligrams per litre for iron  - 1.9 milligrams per litre for manganese. The discharge criteria for the treatment facilities will be nominated during detailed design in consultation with relevant stakeholders and included in the OEMP.				
	New discharge outlets will be designed with appropriate energy dissipation and scour protection measures as required to minimise the potential for sediment disturbance and resuspension in the receiving waters. Outlet design and energy dissipation/scour protection measures will be				
	Existing drainage outlets that will be subject to increased inflow from the project will be assessed. If necessary, energy dissipation or scour protection will be added to prevent sediment disturbance and resuspension in receiving waters.				
	Potentially contaminated areas directly affected by the project will be investigated and managed in accordance with the requirements of guidance endorsed under section 105 of the Contaminated Land Management Act 1997 (NSW) (CLM Act).  This includes further investigations in areas of potential contamination identified in the project footprint. If contamination posing a risk to human or ecological receptors is identified, a Remediation Action Plan will be prepared.				
	Asbestos handling and management will be undertaken in accordance with an Asbestos Management Plan (or similar) prepared in accordance with relevant legislation, regulations and codes of practice) as described in Chapter 23 (Resource use and waste minimisation) of the EIS.				
	A hazardous materials assessment will be carried out prior to and during the demolition of buildings. Demolition works will be undertaken in accordance with the relevant Australian Standards and relevant NSW WorkCover Codes of Practice, including the Work Health and Safety				
CM04	The Construction Waste Management Plan for the project, prepared as described in Chapter 23 (Resource use and waste minimisation) of the EIS, will include procedures for handling and storing potentially contaminated substances.				
CM05	Stockpile management procedures will be implemented to control dust, odour and cross contamination.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
CM06	The discovery of previously unidentified contaminated material will be managed in accordance with an unexpected contaminated lands discovery procedure, as outlined in the Guideline for the Management of Contamination (Roads and Maritime 2013) and detailed in the CEMP. The procedure will include:  - Cease work in the vicinity - Initial assessment by an appropriately qualified environmental consultant - Further assessment and management of contamination, if confirmed, in accordance with				
CM07	A Construction Soil and Water Management Plan will be prepared for the project including procedures to minimise the interaction of stormwater with contaminated land, including acid sulfate soils, and manage potentially contaminated stormwater runoff, as described in Chapter				
CM08	Measures identified in Chapter 25 (Hazard and risk) of the EIS will be implemented to appropriately store contaminated materials and materials with the potential to cause contamination and reduce the potential for environmental contamination due to spills and leaks.				
OpCM01	Procedures to address spills, leaks and tunnel washing will be developed as part of an OEMP and implemented during operation of the project.				
FD01	A Flood Mitigation Strategy will be prepared by a suitably qualified and experienced person in consultation with directly affected landowners, DPI-Water, State Emergency Services (SES), Sydney Water and the relevant local councils. It will include but not be limited to:  I Identification of flood risks to the project and adjoining areas, including consideration of local drainage catchment assessments and climate change implications on rainfall, drainage and tidal characteristics  I Identification of design and mitigation measures to protect proposed operations and not worsen existing flooding characteristics during construction and operation, including soil erosion and scouring  I Identification of drainage system upgrades  The 100 year annual recurrence interval (ARI) flood level will be adopted in the assessment of measures which are required to mitigate flood risk to the project, as well as any adverse impacts on surrounding property  Changes in flood behaviour under probable maximum flood (PMF) conditions will also be assessed in order to identify impacts on critical infrastructure and significant changes in flood hazards as a result of the project  Consideration of limiting flooding characteristics to the following levels:  A maximum increase in inundation time of one hour in a 100 year ARI rainfall event				
FD02	Hydrologic and hydraulic assessments will be carried out for all temporary project components (including ancillary facilities) and permanent design features that have the potential to affect flood levels in the vicinity of the project.  The results of the assessment will inform the preparation of the Flood Mitigation Strategy (FD01) as well as the design development of temporary and permanent works.				
FD03	Measures developed to manage potential flood impacts, as identified in the Flood Mitigation Strategy, will be incorporated into the design of temporary and permanent project components and construction and operational management systems as relevant.				
FD04	All entries (portals) into the tunnels will be designed so that they are located above the peak level of the PMF or the 100 year ARI design flood plus 0.50 metres, whichever is greater. The same hydrological standard will be applied to tunnel ancillary facilities such as tunnel ventilation and emergency response facilities, electrical substations and water treatment plants.				
FD05	Bridge crossings over existing waterways and proposed drainage channels will be designed for the underside of bridge structure to be above the peak 100 year ARI design flood level.				
FD06	The need to maintain flood conveyance will be factored into construction planning associated with the new bridge structure over Whites Creek.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
FD07	Parts of the site that will be adversely affected by floodwaters, such as tunnel dive shafts, portals and cut and cover sections, will be protected from floodwater ingress during construction. The flood level adopted for design of temporary protection will be informed by consideration of both mainstream and local overland flows, the potential risk to the environment, safety and the potential disruption and damage to project works.				
FD08	The Pyrmont Bridge Road tunnel site (C9) will be designed with consideration of and to appropriately manage the existing surface water flow path on Bignell Lane.				
FD09	The permanent surface water conveyance solution within the Rozelle Rail Yards will be implemented as soon as possible.				
FD10	Flood contingency measures will be prepared and implemented where construction ancillary facilities and vulnerable temporary facilities (including fuel storages, water treatment plants and substations) are located in the 20 year ARI design flood extent.				
FD11	Further hydrological and hydraulic modelling based on the detailed design will be undertaken to determine the ability of the receiving drainage systems to effectively convey drainage discharges from the project once operational. The modelling must be undertaken in consultation with the relevant council(s). It will include, but not be limited to:  - Confirming the location, size and capacity of all receiving drainage systems affected by the operation of the project  - Assessing the potential impacts of drainage discharges from the project drainage systems on				
FD12	Where drainage systems are to be upgraded or replaced during the project, existing systems will be left in place and remain operational during the process wherever possible.				
FD13	Runoff generated from project construction and operational facilities and discharges from water treatment facilities will be managed to mitigate risk of overloading the receiving drainage system.				
FD14	Entry points to the stormwater used by or immediately downgradient from the project sites will be inspected regularly for blockages and cleaned as required to maintain performance.				
FD15	Hydrological and hydraulic assessments of the permanent design will consider the climate change related flood risk to the project and flood impacts from the project, and will confirm requirements for any management measures. The assessment will be undertaken in accordance with the Practical Considerations of Climate Change – Floodplain Risk Management Guideline (DECC 2007).				
FD16	Where peak levels in the 100 year ARI design flood are predicted to increase at any residential, commercial and/or industrial buildings due to construction or operation of the project, a floor level survey will be carried out. If the survey indicates flood impacts in excess of the limits set in FD01, further refinements will be made to the temporary or permanent designs as required to				
FD17	A Flood Review Report will be prepared after the first defined flood event affecting the project works for any of the following flood magnitudes – the five year ARI event, 20 year ARI event and 100 year ARI event - to assess the actual flood impact against those predicted in the design reports or as otherwise altered by the FMS. The Flood Review Report(s) must be prepared by an appropriately qualified person(s) and include: - Identification of the properties and infrastructure affected by flooding during the reportable event - A comparison of the actual extent, level, velocity and duration of the flooding event against the impacts predicted in the design reports or as otherwise altered by the FMS - Where the actual extent and level of flooding exceeds the predicted level with the consequent effect of adversely impacting of property(ies), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding related to the M4-M5 Link project including the timing and responsibilities for implementation.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
B1	A Construction Flora and Fauna Management Plan (CFFMP) will be developed and implemented during construction. The CFFMP will include the following:  - Identification of guidelines relevant to construction, the matters they apply to and what is required to ensure compliance  - Pre-disturbance inspection requirements to identify features of biodiversity conservation significance and select appropriate management measures and environmental controls  - Management measures and environmental controls to be implemented before and during construction including:  - An unexpected threatened species finds procedure  - Section 3.3.2 Standard precautions and mitigation measures of the Policy and Guidelines for Fish Habitat Conservation and Management Update 2013 (DPI-Fisheries 2013)  - Tree assessment and management protocols consistent with AS 4970-2009 Protection of				
B2 B3	Prior to the commencement of any works associated with the modification of the Victoria Road bridge, an inspection will be carried out by a suitably qualified and experienced ecologist to confirm the presence of roosting microbats. If roosting microbats are identified, measures to manage potential impacts will be developed in consultation with an appropriate microbat expert and included in the CFFMP prior to the commencement of any work with the potential to disturb the roosting locations (as confirmed by the microbat expert).  The proposed road bridge at Whites Creek will be designed with consideration of Policy and				
	Guidelines for Fish Habitat Conservation Update 2013 (DPI-Fisheries 2013) and Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (NSW-Fisheries 2003).				
B4	Site-specific Erosion and Sediment Control Plans (ESCPs) will be prepared for each work location associated with or in the vicinity of waterways and culverts that will be modified as part of the project. The ESCPs will contain measures to stabilise all surfaces disturbed as a result of the project as soon as possible following the disturbance to prevent erosion and to minimise sedimentation in adjacent aquatic environments.				
B5	The CFFMP will include measures to manage potential impacts on trees. Measures will include:  - The establishment of tree protection zones  - Ground protection measures for trees to be retained.				
B6	As many trees as possible will be retained during construction. In the event that tree removal cannot be avoided, a tree replacement strategy will be prepared. Replacement trees will be included in the relevant UDLP. Opportunities for the provision of replacement trees outside the project boundary will be investigated in consultation with local councils.				
В7	The CFFMP will include tree management protocols and provision for the development of tree management plans (in accordance with the requirements of AS 4970-2009) where required for specific trees. Protection of trees on development sites will be carried out in consultation with an arborist with a minimum Australian Qualifications Framework (AQF) Level 5 qualification in arboriculture for each tree proposed for retention where works associated with the project have				
B8	Tree removal, pruning and maintenance work will be carried out by an arborist with a minimum AQF Level 3 qualification in accordance with AS 4373-2007 Pruning of Amenity Trees and the NSW WorkCover Code of Practice for the Amenity Tree Industry (1998) and advice provided by an arborist with a minimum AQF Level 5 qualification in arboriculture (or equivalent).				
ОВ9	The UDLP will include compensatory planting for trees removed by the project. The plan will include:  - A tree replacement strategy  - Species recommendations for the landscape design to consider, including foraging trees for the Grey-headed Flying-fox  - Relevant project specific rehabilitation and revegetation measures associated with the M4 East and New M5 projects, where there is an overlap in use of project footprint.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
OB10	Consultation will be undertaken with Sydney Water regarding integration of naturalisation works at Whites Creek, including re-establishment of vegetation where possible following construction activities. Vegetation re-establishment will be undertaken in accordance with Guide 3: Reestablishment of native vegetation of the Biodiversity Guidelines: Protecting and Management Biodiversity on RTA Projects (NSW Roads and Traffic Authority 2011).				
GW1	Groundwater inflows within the tunnels will be minimised by designing the final tunnel alignment to minimise intersections with known palaeochannels and alluvium present in the project footprint.				
GW2	Appropriate waterproofing measures will be identified and included in the detailed design to permanently, where reasonable and feasible, reduce the inflow into the tunnels to below one litre per second per kilometre for any kilometre length of the tunnel.				
GW3	Appropriate measures will be investigated and implemented at dive structures and shafts and for cut-and-cover sections of the tunnel to minimise groundwater inflow.				
GW4	Further assessment of the risk posed by the presence of sulfate reducing bacteria and groundwater aggressively will be undertaken prior to construction. A corrosion assessment will be undertaken by the construction contractor to assess the impact on building materials that may be used in the tunnel infrastructure such as concrete, steel, aluminium, stainless steel, galvanised steel and polyester resin anchors. The outcomes of the corrosion assessment will be considered when selecting building materials likely to encounter groundwater.				
GW5	In accordance with the Aquifer Interference Policy (DPI-Water 2012), measures will be taken to 'make good' the impact on an impacted water supply bore by restoring the water supply to predevelopment levels. The measures taken will be dependent upon the location of the impacted bore but could include, for example, deepening the bore, providing a new bore or providing an alternative water supply.				
GW6	Potential impacts associated with subsurface components of the project intercepting and altering groundwater flows and levels will be considered during detailed design. Measures to reduce potential impacts will be identified and included in the detailed construction methodology and the detailed design as relevant.				
GW7	A detailed groundwater model will be developed by the construction contractor during detailed design. The model will be used to predict groundwater inflow rates and volumes within the tunnels and groundwater levels (including drawdown) in adjacent areas during construction and operation of the project.				
GW8	Groundwater inflow within and groundwater levels in the vicinity of the tunnels will be monitored during construction and compared to model predictions and groundwater performance criteria applied to the project. The groundwater model will be updated based on the results of the monitoring as required and proposed management measures to minimise				
GW9	Further investigations will be carried out to identify areas where groundwater inflows to the tunnels are likely to be elevated, to guide the development of the detailed design and construction methodology. The investigations will be carried out prior to the commencement of excavations with the potential to result in groundwater inflow at each identified location.				
OGW9	A groundwater monitoring program will be prepared and implemented to monitor groundwater inflows in the tunnels and groundwater levels as well as groundwater quality in the three main aquifers and inflows during construction.  The program will identify groundwater monitoring locations, performance criteria in relation to groundwater inflow and levels and potential remedial actions that will be considered to address any non-compliances with performance criteria. As a minimum, the program will include manual groundwater level and quality monitoring monthly and inflow volumes and quality weekly. The monitoring program will be developed in consultation with the NSW EPA, DPI-Fisheries, DPIWater, City of Sydney Council and Inner West Council.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
OGW10	The groundwater monitoring program prepared and implemented during construction will be augmented and continued during the operational phase. Groundwater will be monitored during the operations phase for three years or as otherwise required by the project conditions of approval and will include trigger levels for response or remedial action based on monitoring results and relevant performance criteria.  At least three monitoring wells and vibrating wire piezometers (VWPs) should be constructed as close as possible to the tunnel centrelines to allow for the comparison of pore pressures and standing water levels. The wells could be constructed about 5-10 metres above the top of the tunnel crown to allow for groundwater drawdown monitoring in the Hawkesbury Sandstone. The program will include procedures for monitoring and reporting of extracted groundwater volumes to DPI-Water annually for the duration of construction and operation, unless otherwise agreed to or directed by the Secretary. The operational groundwater monitoring program will be developed in consultation with the NSW EPA, , DPI-Water and relevant councils and documented in the OEMP or EMS.				
OGW11	Where the corrosion assessment that will be carried out prior to construction indicates potential issues, corrosion and other associated impacts of highly aggressive groundwater on the tunnel infrastructure will be monitored during operations. The monitoring program will be documented in the OEMP or EMS. Corroded or otherwise impacted infrastructure will be repaired or replaced as required to maintain operational integrity of the road infrastructure.				
OGW12	In accordance with the NSW Aquifer Interference Policy (DPI-Water 2012), measures will be taken to 'make good' the impact on an impacted water supply bore by restoring the water supply to predevelopment levels. The measures taken will be dependent upon the location of the impacted bore but could include, for example, deepening the bore, providing a new bore or providing an alternative water supply.				
NAH01	Construction Heritage Management Plan (CHMP) will be prepared and implemented as part of the Construction Environmental Management Plan. The CHMP will include:  - Measures that will be implemented to manage potential impacts to items of heritage significance				
NAH02	An Interpretation Strategy will be developed and implemented to identify and interpret the key heritage values and stories of the heritage areas affected by the project and inform the development of the Urban Design and Landscape Plan for the project, in accordance with Interpreting Heritage Places and Items Guideline (NSW Heritage Office 2005). The Interpretation Strategy will:  - Build on themes, stories and initiatives proposed as part of other stages of WestConnex to ensure a consistent approach to heritage interpretation for the project  - Include themes and stories including the Rozelle railways historic functions, trains and trams				
NAH03	Photographic archival recording will be undertaken of: - Infrastructure associated with the White Bay Power Station site that could be affected by the project Whites Creek Stormwater Channel (in the area to be impacted) - Stormwater Canal off Lilyfield Road - 'Cadden Le Messurier' at 84 Lilyfield Road - Former Hotel at 78 Lilyfield Road - Victoria Road overbridge - Each house at 260–266 Victoria Road - Each house at 248–250 Victoria Road - Former Bank of NSW (164 Parramatta Road).  It will be undertaken in accordance with the NSW Heritage Office guidelines Photographic Recording of Heritage Items Using Film or Digital Capture (2006).  The photographic archival recording will occur prior to any works that have the potential to impact upon the items and will include the identification of appropriate stakeholders to receive copies of the documentation.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
NAH04	As part of the CHMP, a Historical Archaeological Research Design (HARD) will be prepared before the start of proposed works within each of the following Historical Archaeological Management Units (HAMUs): HAMU 3, HAMU 6, HAMU 7, HAMU 10, and HAMU 11. The HARD will be prepared by a qualified archaeologist in consultation with the NSW Heritage Council and will				
	include: - Descriptions of clear significance thresholds for possible archaeological items that may be uncovered during works - A methodology and scope for a program of archaeological excavation, investigation, and				
	recording of any historical archaeological remains that will be impacted by the project - Requirement for post-excavation reporting, including artefact analysis and additional historical research, where necessary, and long term management of records - Details of what will happen with any artefacts uncovered and associated reports.				
NAH05	Before excavation of archaeological management sites, a suitably qualified Excavation Director who complies with Criteria for Assessment of Excavation Directors (Heritage Council of NSW 2011) will be engaged to advise on matters associated with historic archaeology. Where archaeological excavation is required, the Excavation Director will oversee excavation and advise on archaeological matters.				
NAH06	Potential vibration impacts to features of heritage significance will be managed in accordance with the CNVMP prepared for the project.				
NAH07	Potential heritage impacts due to settlement and ground movement caused by the project will be managed in accordance with the relevant measures identified in the land use and property section of this table and monitored in accordance with the Settlement Monitoring Program.				
NAH08	Any items of potential heritage conservation significance or human remains discovered during construction will be managed in accordance with an Unexpected Heritage Finds and Humans Remains Procedure developed for the project in accordance with relevant guidance provided by the Heritage Council of NSW, the NSW Heritage Division of OEH and the Standard Management Procedure Unexpected Archaeological Finds (Roads and Maritime 2015a). The procedure will				
NAH09	A Heritage Salvage Strategy will be prepared to identify the salvage potential of the fabric and features from heritage items and potential heritage items that will be demolished to facilitate the project. This could include timber joinery, fireplaces, stained glass, stairs, decorative tiles, bricks,				
NAH10	Sandstone kerbing in the vicinity of 32 and 34 Victoria Road, Rozelle that will be removed to facilitate the project will be salvaged and provided to Inner West Council.				
NAH11	The potential for impacts to the railway cutting on the eastern side of Victoria Road, associated with the White Bay Power Station, will be considered during the development of the detailed design for the realigned Victoria Road and associated bridge. The final design will seek to avoid impact to the railway cutting and maintain the visual relationship between the cutting and the White Bay Power Station site. Landscaping sympathetic to the relationship, developed in consultation with a heritage specialist, will be included in the UDLP for the project.				
NAH12	A condition assessment of the southern penstock (and its associated water channels) will be carried out by a heritage specialist and a structural engineer prior to any works in the vicinity with the potential impact upon the item. If required any conservation works required to limit potential impacts on deteriorated fabric (loose bricks, corroded steel) will be identified and implemented prior to construction.				
NAH13	The southern penstock and its associated water channels (location and extent unknown) will be protected during works associated with the reconstruction of the Victoria Road bridge.				
NAH14	The new bridge over the Whites Creek Stormwater Channel must not impact the extant significant heritage fabric of the channel and should be a solely independent structure.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
NAH15	Landscaping, following the construction of the substation, should consider screening the substation and water treatment plant, from the Leichhardt (Charles Street) Underbridge. The design and location of the landscaping will be informed by a heritage specialist and should seek to create a visual separation between the new structure and the heritage item.				
NAH16	A condition assessment of the northern penstock will also be carried out by a heritage specialist and a structural engineer prior to any vibratory works in the vicinity that have the potential to impact on the item. The condition assessment will inform additional management measures to protect the northern penstock, if required. Any conservation works required to limit potential impacts on deteriorated fabric (loose bricks, corroded steel) will be identified and implemented Any items of potential Aboriginal archaeological or cultural heritage conservation significance or				
AIII	human remains discovered during construction will be managed in accordance with the Unexpected Heritage Finds and Humans Remains Procedure developed for the project.				
AH2	Subject to gaining access from the relevant landholder, a suitably qualified archaeologist will visit AHIMS site #45-6-2278 prior to the commencement of any vibration intensive construction activities in the vicinity of the site to verify the site to confirm and record its current condition.				
AH3	If the AHIMS site #45-6-2278 is verified, an assessment will be completed by a suitably qualified and experienced person prior to the commencement of any vibration intensive construction activities in the vicinity. The assessment will consider all vibration intensive activities that will occur in the vicinity, the likely vibration levels and relevant vibration criteria and identify the management measures, including monitoring, that will be implemented to prevent and reduce potential impacts. A final condition				
GHG1	An Energy Efficiency and Greenhouse Gas Emissions Strategy and Management Plan will be prepared for the project as part of the project's Sustainability Management Plan and will be implemented to assist in achieving 'Design' and 'As Built' ratings of Excellent under the Infrastructure Sustainability Council of Australia infrastructure rating tool.				
GHG2	Undertake an updated greenhouse gas (GHG) assessment based on detailed design for ongoing monitoring and review of emissions during construction.				
GHG3	Opportunities to use low emission construction materials, such as recycled aggregates in road pavement and surfacing, and cement replacement materials will be investigated and incorporated where feasible and cost-effective.				
GHG4	Construction plant and equipment will be operated and maintained to maximise efficiency and reduce emissions, with construction planning used to minimise vehicle wait times and idling onsite and machinery turned off when not in use.				
GHG5	Locally produced goods and services will be procured where feasible and cost effective to reduce transport fuel emissions.				
GHG6	At least 20 per cent of construction energy (electricity) required for the project will be sourced from renewable energy generated onsite and/or an accredited GreenPower energy supplier, where possible. Six per cent of construction energy (electricity) requirements will be offset, with any offset undertaken in accordance with the Australian Government National Carbon Offset Standard.				
OGHG7	The tunnel will be designed with appropriate vertical alignments and grades to allow vehicles to maintain constant speeds and minimise fuel use to reduce potential greenhouse gas emissions.				
OGHG8	Energy efficiency will be considered during the design of mechanical and electrical systems such as the tunnel ventilation system, tunnel lighting, water treatment systems and electronic toll and surveillance systems. Energy efficient systems will be installed where reasonable and practicable.				
OGHG9	At least six per cent of operational energy (electricity) required for the project will be sourced from an accredited GreenPower energy supplier and/or through renewable energy generated onsite. Opportunities for operational energy offset, in accordance with the Australian Government National Carbon Offset Standard, will be considered during detailed design.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
RW1	Construction material will be sourced in accordance with the relevant aims of the WestConnex Sustainability Strategy (Sydney Motorway Corporation 2015) and a Sustainability Management Plan (that will be developed during detailed design), including to optimise resource efficiency and waste management, and select locally sourced materials and prefabricated assets where possible, to reduce greenhouse gas emissions.  Unnecessary resource consumption will be avoided through the detailed design of the project and by making realistic predictions about the required quantities of resources, such as construction materials.				
	Wastes will be managed and disposed of in accordance with relevant NSW legislation and government policies.				
	A Construction Waste Management Plan will be prepared as part of the CEMP and regularly updated during detailed design and construction, detailing appropriate procedures for waste management. The plan will include the waste management measures described in this EIS.				
	Wastes will be managed using the waste hierarchy principles of:  - Avoidance of unnecessary resource consumption to reduce the quantity of waste being generated  - Recovery of resources for reuse on-site or off-site for the same or similar use, without reprocessing  - Recovery of resources through recycling and reprocessing so that waste can be processed into a similar non-waste product and reused  - Disposal of residual waste.				
	Resource recovery will be applied to the management of construction waste and will include:  - Recovery of resources for reuse-reusable materials generated by the project will be segregated for reuse on site, or off site where possible, including the reuse of the major waste streams (VENM)  - Recovery of resources for recycling @ recyclable resources (such as metals, plastics and other recyclable materials) generated during construction and demolition  - Resources will be segregated for recycling and sent to an appropriate recycling facility for processing  - Recovery of resources for reprocessing @ cleared vegetation will be mulched or chipp				
	Options identified for the off-site reuse of waste will comply with relevant NSW EPA resource recovery exemptions and requirements.				
	The Construction Waste Management Plan will document anticipated volumes of spoil that will be generated by the project, spoil storage locations within project sites and likely spoil disposal sites.  The Construction Waste Management Plan and spoil reuse opportunities will be regularly reviewed and updated during detailed design and project construction.				
	The project will reuse or recycle around 95 per cent of uncontaminated spoil generated for beneficial purposes, either within the project or at other locations in accordance with the project spoil management hierarchy				
	Suitable areas will be identified to allow for contingency management of unexpected waste materials, including contaminated materials. Suitable areas will be required to be hardstand or lined areas that are appropriately stabilised and bunded, with sufficient area for stockpile storage.				
	The discovery of previously unidentified contaminated material will be managed in accordance with an unexpected contaminated lands discovery procedure, as outlined in the Guideline for the Management of Contamination (Roads and Maritime 2013) and detailed in the CEMP.				
	Spoil stockpiles will be provided with appropriate environmental controls and managed to reduce potential impacts associated with dust generation, erosion and sedimentation.				
	General wastes from site offices such as putrescibles, paper, cardboard, plastics, glass and printer cartridges will be separated and collected for recycling off-site wherever practicable.				
	An asbestos survey will be undertaken of buildings to be demolished as part of the project in accordance with an Asbestos Management Plan as part of the Work Health and Safety Plan. The survey will be conducted by a suitably qualified person.				

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RW14	Asbestos handling and management will be undertaken in accordance with an Asbestos Management Plan (or similar) prepared in accordance with relevant legislation, regulations and codes of practice as described in Chapter 23 (Resource use and waste minimisation) of the EIS. Adjacent communities will be provided with advance notification about potential hazards.				
OpRW1	The project will be operated in accordance with the relevant aims of the WestConnex Sustainability Strategy (Sydney Motorway Corporation 2015) and a Sustainability Strategy will be developed during detailed design to outline ways to optimise resource efficiency and waste management.				
OpRW2	Waste will be managed and disposed of in accordance with relevant NSW legislation and government policies and the mitigation measures described in this EIS.				
OpRW3	Opportunities to reuse treated groundwater during project operation will be considered in preference to discharge receiving waterbodies. This could include irrigation of landscaped areas within the project footprint such as new open spaces at the Rozelle interchange.				
OpRW4	In order to reduce demand on local water supplies, options will be investigated to provide water for the deluge system from wastewater produced through the tunnel drainage system, where it meets appropriate quality parameters.				
CC1	In the refinement of construction Work Health and Safety Management Plans, consider the increased potential for heat stress among construction personnel and implement measures for greater awareness and education of personnel around health and wellbeing during periods of extreme heat.				
CC2	A detailed climate change risk assessment which will be undertaken during detailed design, in accordance with AS 5334-2013 Climate change adaptation for settlements and infrastructure - A risk based approach. The assessment will identify adaptation measures to address medium, high and extreme risks.				
CC3	Adaptation measures will be identified and implemented to address high and extreme climate change risks. Adaptation measures for medium risks will also be considered further during detailed design and implemented where reasonable and feasible.				
CC4	The impact of climate change on potential flood risks will be considered during development of the detailed design in accordance with relevant guidelines as described in Chapter 17 (Flooding and drainage) and Appendix Q (Technical working paper: Surface water and flooding) of the EIS.				
CC5	Increased flood risks due to climate change will be considered in the detailed design of drainage systems. Drainage network features will be developed and installed to mitigate potential increased flood risks as described in Chapter 17 (Flooding and drainage) and Appendix Q (Technical working paper: Surface water and flooding) of the EIS.				
CC6	Potential changes to sea levels due to climate change will be considered during the design of operational water treatment plants that will discharge to waterways. Discharge outlets and relevant water treatment plant features will be designed and constructed accordingly.				
CC7	Consider the projected increase in the intensity and frequency of extreme rainfall during detailed design, which may lead to exacerbated risk of road incidents. Consider implementation of operational procedures for surface connections to increase safety during extreme rainfall events, such as use of variable speed signs and reduced speed limits.				
HR1	Storage of dangerous goods and hazardous materials will occur in accordance with suppliers' instructions and relevant Australian Standards and legislation including the:  - Work Health and Safety Act 2011 (NSW)  - Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW 2005)  - Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (NSW EPA 1997).				
HR2	Secure, bunded areas will be provided around storage areas for oils, fuels and other hazardous liquids. Impervious bunds will be of sufficient capacity to contain at least 110 per cent of the volume of the largest stored container.				

REMMs Ref	Environmental management measure	Timing	Responsibility	Compliance Status	Comments / Evidence
HR3	Management measures to reduce the potential for spills, reduce potential spill volumes and prevent any contamination will be developed and implemented for activities such as vehicle refuelling, servicing, maintenance and washdown, where there is a potential for spills and contamination.				
HR4	Safety Data Sheets for dangerous goods and hazardous substances will be stored on site prior to their arrival.				
HR5 HR6	Transport of dangerous goods and hazardous substances will be conducted in accordance with relevant legislation and codes, including the Dangerous Goods (Road and Rail Transport) Regulation 2014 (NSW) and the Australian Code for the Transport of Dangerous Goods by Road Construction lighting will be designed and installed in accordance with the design requirements				
	of the Civil Aviation and Safety Authority (CASA) and the Sydney Airport Master Plan 2033				
OpHR1	The fire and safety systems and measures adopted for the project will be equivalent to or exceed the fire safety measures recommended by National Fire Protection Association 502 (American), Permanent International Association of Road Congresses (European), AS4825 (Australian) and Roads and Maritime standards.				
OpHR2	Ongoing consultation will be undertaken with emergency services regarding fire and safety systems and associated measures adopted for the project.				
OpHR3	The transport of dangerous goods and hazardous substances will be prohibited through all tunnels associated with the project.				
OpHR4	An Incident Response Plan will be developed as part of the Emergency Response Plan for the project and implemented in the event of an accident or incident.				
OpHR5	The response to incidents within the motorway will be managed in accordance with the memorandum of understanding between Roads and Maritime and the NSW Police Service, NSW Rural Fire Service, NSW Fire Brigade and other emergency services.				
OpHR6	Storage of dangerous goods and hazardous materials will occur in accordance with suppliers' instructions and relevant Australian Standards and legislation including the:  - Work Health and Safety Act 2011 (NSW)  - Storage and Handling of Dangerous Goods Code of Practice (WorkCover NSW 2005)  - Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (NSW EPA 1997).  Storage methods may include bulk storage tanks, chemical storage cabinets/ containers or impervious bunds.				
OpHR7	Secure, bunded areas will be provided around storage areas for oils, fuels and other hazardous liquids. Impervious bunds will be of sufficient capacity to contain at least 110 per cent of the volume of the largest stored container.				
OpHR8	Management measures to reduce the potential for spills, reduce potential spill volumes and prevent any contamination will be developed and implemented for activities such as vehicle refuelling, servicing, maintenance or washdown, where there is a potential for spills and contamination.				
OpHR9	Material Safety Data Sheets for dangerous goods and hazardous substances will be stored on site prior to their arrival.				
OpHR10	The detailed design of the project substations will ensure that the exposure limits for the general public suggested by the Draft Radiation Standard (Australian Radiation Protection and Nuclear Safety Agency 2006) will not be exceeded at the boundary of the substation sites.				
OpHR11	Should the exhaust plumes at any of the M4-M5 Link ventilation outlets be assessed as a 'controlled activity' under the Airports Act and the Airspace Regulations, then the project will be operated in accordance with any conditions of approval from the Secretary of Department of Infrastructure and Regional Development.				
OpHR12	Aviation hazard lighting (if required), building lighting and surface road lighting will be designed and operated in accordance with the requirements of CASA and the Sydney Airport Master Plan 2033.				

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C1	Cumulative impacts strategy will be prepared in accordance with the Cumulative impact assessment methodology in Chapter 26 and Appendix C (Cumulative impact assessment methodology) of the EIS. It will include strategies and measures to minimise cumulative impacts on the community and other stakeholders including:  - Identification of key stakeholders and projects  - Identification of precincts for which separate Cumulative impact plans may be developed and implemented  - Identification of a co-ordinating body  - Procedures and mechanisms for co-ordinating consultation and sharing of information, such as works programs and schedules, with other projects  - Opportunities and measures to work with other projects to minimise the effects of impacts and enhance the benefits of multiple projects occurring concurrently or consecutively  - Opportunities to co-ordinate community communications across the various projects to provide consistent messaging.				
C2	A Community Consultative Committee will be established for the project in accordance with Community Consultative Committee Guidelines (NSW Department of Planning and Environment 2016). The committee will provide a forum for discussion between Roads and Maritime, the construction contractor(s), local community and councils regarding the project, including cumulative impacts.				
S1	The construction contractor will develop and implement a Sustainability Management Plan during detailed design. The Sustainability Management Plan will establish governance structures, processes and systems that ensure integration of all sustainability considerations (vision, commitments, principles, objectives and targets), initiatives, monitoring and reporting during the detailed design and construction phases of the project.				
S2	The project will be designed and constructed to achieve an Excellent 'Design' and 'As built' rating under the Infrastructure Sustainability Council of Australia's Infrastructure Sustainability rating tool.				