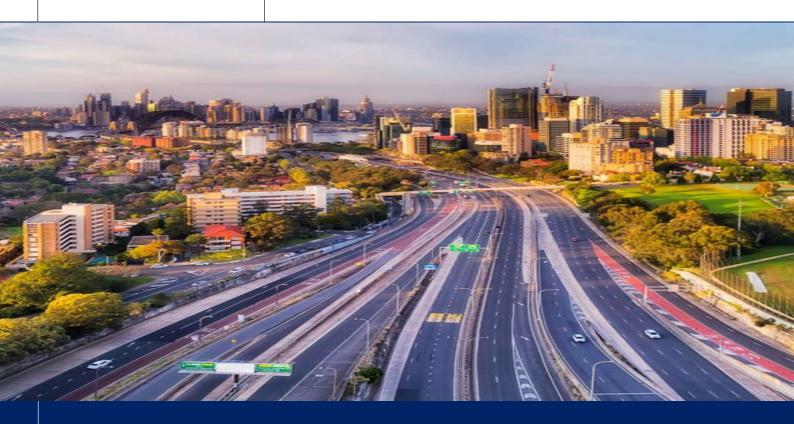
Transport for NSW

Staging Report

Western Harbour Tunnel and Warringah Freeway Upgrade (SSI 8863)



September 2024

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			Revision to include non-	TfNSW Environment					
10	0 27-Sep-24 Final		contestable works	Team					
			Contestable works	IEdili					

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Glossary / Abbreviations

Expanded Text											
Acoustic Advisor											
Berrys Bay											
Beaches Link (previously proposed project / cancelled as of 2023)											
Construction Environmental Management Framework											
Construction Environmental Management Plan											
Cammeray Golf Course adjustment works, Stage 1B of the Western Harbour											
Tunnel and Warringah Freeway Upgrade											
Conditions of Approval											
Construction Noise and Vibration Impact Statement											
Coronavirus disease											
Critical utility installation, relocation and protection, Stage 1A of the Western											
Harbour Tunnel and Warringah Freeway Upgrade											
NSW Department of Planning, Housing and Infrastructure (formally DPE)											
Western Harbour Tunnel and Warringah Freeway Upgrade Environmental Impact											
Statement (January 2020)											
NSW Environment Protection Authority											
Environmental Representative											
Intelligent Transport System											
Low impact work as defined in the Conditions of Approval includes:											
a) site establishment work approved under a Site Establishment											
Management Plan;											
b) operation of ancillary facilities if the ER has determined the operational											
activities will have minimal impact on the environment and community;											
c) minor clearing and relocation of native vegetation, as identified in the											
documents listed in Condition of Approval A1;											
d) installation of mitigation measures including erosion and sediment											
controls, temporary exclusion fencing for sensitive areas and at-property											
treatments (including the implementation of the NIP);											
e) property acquisition adjustment work including installation of property											
fencing, and relocation and adjustments of utilities to property including											
water supply and electricity; f) relocation and connection of utilities where the relocation or connection											
has a minor impact to the environment as determined by the ER;											
g) archaeological testing under the Code of practice for archaeological											
investigation of Aboriginal objects in NSW (DECCW, 2010) or											
archaeological monitoring undertaken in association with (a) – (f) above to											
ensure that there is no impact on heritage items;											
h)—the relocation of Cape Don and Baragoola historic vessels as permitted											
subject to Condition of Approval E53;											
i) adjustment of Cammeray Golf Course as identified in Condition of											
Approval E101and relocation of the Cammeray Golf Club dam / harvesting											
scheme subject to Condition of Approval E209;											
j) noise barrier / wall between Massey and Amherst Street, Cammeray as											
identified in Condition of Approval E183 and Appendix C;											

Abbreviation	Expanded Text										
	k) maintenance of existing buildings and structures required to facilitate the										
	carrying out of the CSSI; and										
	l) other activities determined by the ER to have minimal environmental										
	impact which may include but not be limited to construction of minor										
	access roads, temporary relocation of pedestrian and cycle paths and the										
	provision of property access.										
	provision or property access.										
	Notwithstanding the following works are not Low Impact Work:										
	a. where heritage items (excluding those impacted by activities (i) and (j)										
	above), or threatened species or threatened ecological communities										
	(within the meaning of the Biodiversity Conservation Act 2016 or										
	Environment Protection and Biodiversity Conservation Act 1999) are										
	affected or potentially affected by any low impact work, that work is										
	construction, unless otherwise determined by the Planning Secretary										
	in consultation with Heritage NSW, EESG or DPI Fisheries (in the case										
	of impact upon fish, aquatic invertebrates or marine vegetation); and										
	b. any night time (hours as defined by the ICNG) work that exceeds noise										
	management levels as identified in Condition of Approval E68(b)(i)										
	management tevets as identified in condition of Approvat Loo(b)(i)										
	The low impact work described in this definition becomes construction with the										
	approval of a Construction Environmental Management Plan.										
	Maritime Heritage – relocation of historic vessels M.V. Cape Don and Baragool										
MH	Stage 1E of the Western Harbour Tunnel and Warringah Freeway Upgrade										
Minister, the	Minister for Planning and Public Space (or delegate)										
	Massey to Amherst noise barrier, Stage 1C of the Western Harbour Tunnel and										
M2A	Warringah Freeway Upgrade										
NSW	New South Wales										
OOHW	Out of Hours Works										
Project, the	Western Harbour Tunnel and Warringah Freeway Upgrade Project										
REMM	Revised Environmental Management Measures as outlined in the project RtS										
KEIVIIVI	document										
ROL	Road Occupancy Licence										
RtS	Western Harbour Tunnel and Warringah Freeway Upgrade Response to										
INIO	Submissions (September 2020)										
SC0	Sydney Coordination Office										
SSI	State Significant Infrastructure										
TfNSW	Transport for New South Wales										
TMC	Transport Management Centre										
WFU	Warringah Freeway Upgrade, Stage 2 of the Western Harbour Tunnel and										
VVIO	Warringah Freeway Upgrade										
WHT	Western Harbour Tunnel project, Stage 3 of the Western Harbour Tunnel and										
VVIII	Warringah Freeway Upgrade										
WHTCP	Western Harbour Tunnel construction power, Stage 1D of the Western Harbour										
WILLOF	Tunnel and Warringah Freeway Upgrade										
	3 13										

1. Introduction

1.1 Purpose of this Staging Report

This Staging Report has been prepared and structured to address the requirements of Conditions of Approval (CoA) A10 to A14 of the Western Harbour Tunnel and Warringah Freeway Upgrade (SSI 8863) (WHTWFU/ the project) planning approval. Table 1 cross-references sections in this report that address each applicable planning approval requirement relating to the Staging Report.

The Department of Planning, Housing and Infrastructure (DPHI) formally the Department of Planning and Environment has been advised of the status of the project prior to the commencement of each stage.

Updates to this Staging Report will be made as required, particularly following the determination of any project modifications or changes to the delivery strategy (refer to Sections 2.2). Where amendments to the proposed staging occur, a revised Staging Report will be prepared in consultation with DPHI and will be submitted in accordance with CoA A14.

Table 1: Staging Report Planning Approval condition cross references

CoA	Condition requirement(s)	Staging Report Sections
A1	The Proponent must carry out the CSSI in accordance with the terms of this approval and generally in accordance with the: a) Western Harbour Tunnel and Warringah Freeway Upgrade Environmental Impact Statement – Volumes 1A-B and 2A-J (dated January 2020) (the EIS); and b) Western Harbour Tunnel and Warringah Freeway Upgrade Response to Submissions Report (dated September 2020) (the RtS). c) Western Harbour Tunnel and Warringah Freeway Upgrade Wicks Road Construction Support Site – Modification Report (dated October 2022) (Modification 1 Report); and d) Western Harbour Tunnel and Warringah Freeway Upgrade Modification - Wicks Road Construction Support Site Submissions Report (dated May 2023)	This document
A2	The CSSI must only be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the documents listed in Condition A1 unless	This document

CoA	Condition requirement(s)	Staging Report Sections
	otherwise specified in, or required	
	under, this approval.	
	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 may be) must be prepared and	
	submitted to the Planning Secretary	
	for information. The Staging Report	TI:
440	must be Endorsed by the ER and then	This report must be submitted to the Planning
A10	submitted to the Planning Secretary	Secretary for information one month prior to
	no later than one month before the	the commencement of the first stage.
	commencement of construction of	
	the first of the proposed stages of	
	construction (or if only staged	
	operation is proposed, one month	
	before the commencement of	
	operation of the first of the proposed	
	stages of operation).	
A11	The Staging Report must:	
	(a) if staged construction is	
	proposed, set out how the	
	construction of the whole of the CSSI	Sections 2.2 and 2.4 outline the activities
	will be staged, including details of	which will occur within each construction
	work and other activities to be carried	stage and an indicative program for the
	out in each stage and the general	works.
	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 details of work and	Sections 2.3 and 2.4 outline the activities
	other activities to be carried out in	which will occur within each operational stage
	each stage and the general timing of	and an indicative program for the works.
	when operation of each stage will	
	commence and finish (if relevant);	
	(c) specify how compliance with	Section 3 discusses the environmental
	conditions will be achieved across	management system which would be
	and between each of the stages of the	implemented on the project to manage
	CSSI; and	compliance across the stages of the Project.
	(d) set out mechanisms for	Section 26 includes details as beau
	managing any cumulative impacts	Section 2.6 includes details on how
	arising from the proposed staging.	cumulative impacts will be managed.
	The CSSI must be staged in	The project will be staged in accordance with
A12	accordance with the Staging Report,	this report which will be submitted for
MIC	as approved by the Planning	information to the Planning Secretary prior to
	Secretary	the commencement of the stage
A13	Where staging is proposed, the terms	Appendix A and Appendix B allocate the
AIS	of this approval that apply or are	applicability of each CoA and Revised

CoA	Condition requirement(s)	Staging Report Sections
	relevant to the works or activities to be carried out in a specific stage must be complied with at the relevant time for that stage	Environmental Mitigation Measures (REMMs) to each stage of the project.
A14	Where changes are proposed to the staging of construction or operation, a revised Staging Report must be prepared and submitted to the Planning Secretary for approval no later than one month prior to the proposed change in the staging.	This report will be revised, endorsed by the ER and submitted to the Planning Secretary no later than one month prior to the proposed change in the staging.

1.2 Background

The Western Harbour Tunnel and Warringah Freeway Upgrade (WHTWFU) project comprises a new tolled motorway tunnel connection across Sydney Harbour, and an upgrade of the Warringah Freeway to integrate the new motorway infrastructure with the existing road network and to connect to the future proposed Beaches Link and Gore Hill Freeway Connection project.

Due to its importance, the WHTWFU was declared to be critical state significant infrastructure (CSSI) by the Minister for Planning and Public Spaces on 9 November 2020.

On 21 January 2021, DPHI, formerly the Department of Planning, Industry and Environment (DPIE) approved the construction and operation of the WHTWFU.

On 8 August 2023, DPHI, formally the Department of Planning and Environment (DPE) approved the Western Harbour Tunnel & Warringah Freeway upgrade Modification 1 – Wicks Road construction support site.

On 27 January 2024, DPHI approved the Western Harbour Tunnel & Warringah Freeway upgrade Modification 2 – TBM construction methodology and additional ancillary facility site at Emu Plains (WHT13).

1.3 Project Description

The WHTWFU project comprises of two main components:

- A new crossing of Sydney Harbour involving twin tolled motorway tunnels connecting the M4-M5 Link at Rozelle and the existing Warringah Freeway at North Sydney (the Western Harbour Tunnel (WHT)) (refer to Figure 1)
- Upgrade and integration works along the existing Warringah Freeway, including infrastructure required for connections to the future proposed Beaches Link and Gore Hill Freeway Connection project (the Warringah Freeway Upgrade (WFU)) (refer to Figure 2).

The WHTWFU project has been split into two separate projects, which will be delivered by TfNSW.

A detailed description of the Project is provided in Chapter 5 of the Western Harbour Tunnel and Warringah Freeway Upgrade Environmental Impact Statement (EIS).

A detailed description of the Wicks Road construction support site is included in Chapter 5 of the Western Harbour Tunnel & Warringah Freeway upgrade modification 1 – Wicks Road construction support site.

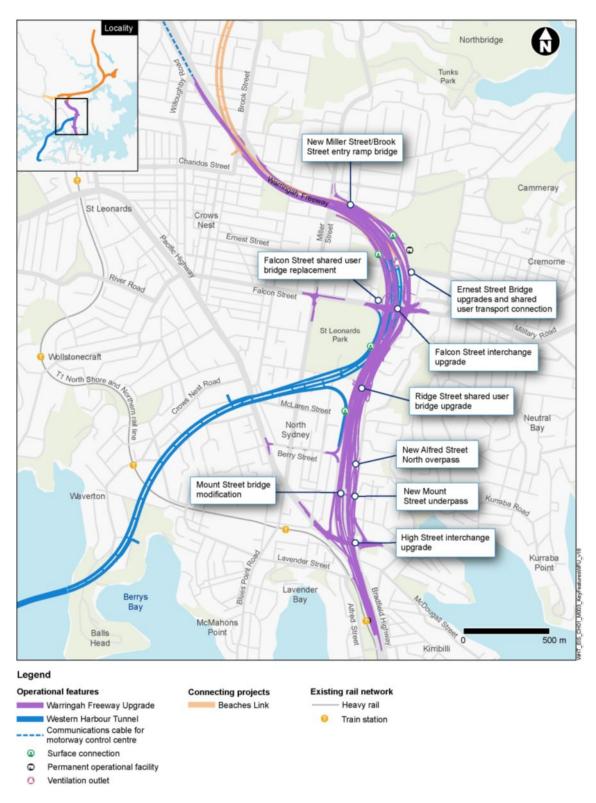
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A detailed description of the Emu Plains construction support site is included in Chapter 9 of the Western Harbour Tunnel & Warringah Freeway upgrade modification 2 – TBM construction methodology. While modification 2 – TBM construction methodology detailed the Berrys Bay (WHT7) construction support site is no longer required, the delivery of the Berrys Bay foreshore park, part of the Berrys Bay masterplan, would be delivered as part of the Western Harbour Tunnel & Warringah Freeway Project.



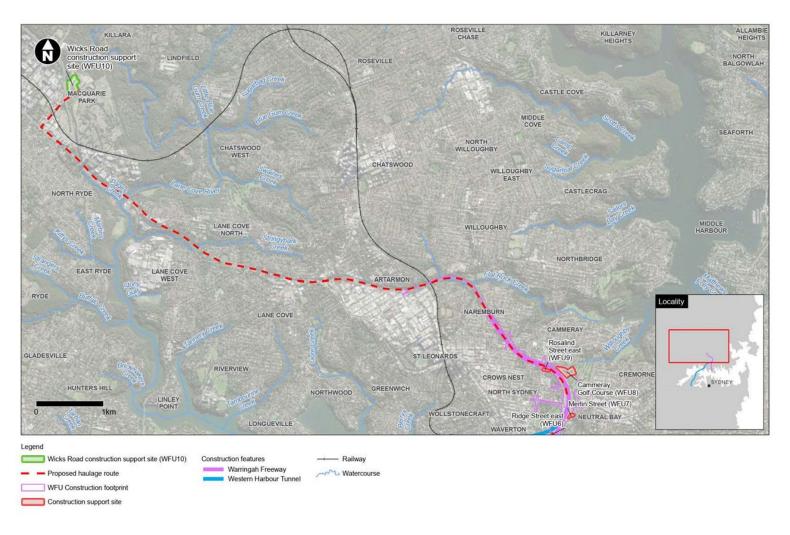
(Reference: Western Harbour Tunnel and Warringah Freeway Upgrade Modification 2 Report, Figure 5-1

Figure 1: Key features of the Western Harbour Tunnel component of the project



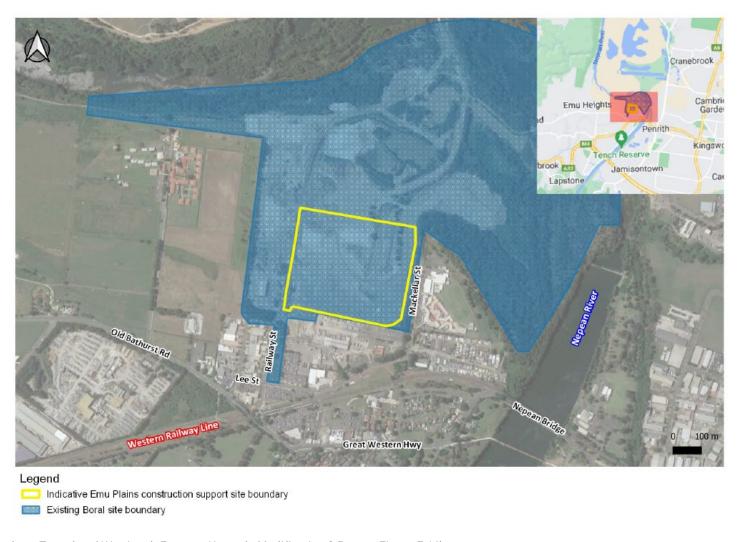
(Reference: Western Harbour Tunnel and Warringah Freeway Upgrade Environmental Impact Statement, Figure 1-3)

Figure 2: Key features of the Warringah Freeway Upgrade component of the project



(Reference: Western Harbour Tunnel and Warringah Freeway Upgrade Modification Report, Figure 5-2)

Figure 3: Location of the Wicks Road construction support site (Mod-1) as part of the Warringah Freeway Upgrade component of the project



(Reference: Western Harbour Tunnel and Warringah Freeway Upgrade Modification 2 Report, Figure 5-14)

Figure 4: Location of the Emu Plains construction support site (Mod-2) as part of the Western Harbour Tunnel component of the project



Figure 5: Location of the Berrys Bay as part of the Western Harbour Tunnel component of the project. Precinct 3 is excluded from the scope

2. Project Staging

2.1 Overview

TfNSW has elected to stage portions of the project in response to further planning and feedback received from stakeholders and industry consultation.

The staging strategy for the project focuses on balancing the need for construction to occur in a safe and efficient manner, while managing constructability constraints, reducing the cumulative impacts and minimising impacts on local communities, the environment, and users of the surrounding road and other transport networks.

The duration of construction is significantly influenced by the complexity and magnitude of the interfaces between the various scopes of work. The staging strategy seeks to minimise the risk to delivery timing and impacts on nearby communities, including cumulative impacts from construction (refer to Section 2.6).

The stages of the project comprise of:

Stage 1 - Early and enabling works:

- Stage 1A Critical utility installation, relocation and protection (CUT) (works completed as of 11 October 2023)
- Stage 1B Cammeray Golf Course adjustment works (CGC) (works completed as of 26 May 2023)
- Stage 1C Massey to Amherst noise wall (M2A) (works completed as of 10 February 2023)
- Stage 1D WHT construction power and utilities (WHTCP) (Works cancelled as of December 2022)
- Stage 1E Berry's Bay Berry's Bay archaeological investigation (BB)

Stage 2 - Warringah Freeway Upgrade project:

Stage 2 – Warringah Freeway Upgrade (WFU) (commencement of construction 23 May 2022)

Stage 3 – Western Harbour Tunnel project (WHT):

- Stage 3A WHT Southern Tunnel Works (commencement of construction 30 January 2023)
- Stage 3B Northern Tunnelling and Integration works (commencement of construction 22 May 2023),
- Stage 3C Sydney Harbour Crossing between Birchgrove and Balls Head, Waverton, which includes;
 - Excavation of about 1.8 km of twin mainline tunnels using Tunnel Boring Machine (TBM) methodology.
 - Use of Ridge Street North (WHT9) as a tunnelling support site, including the construction of an acoustic shed.
 - Construction and operation of an additional construction ancillary facility at Emu Plains (WHT13), primarily for the prefabrication and storage of tunnel lining segments, box culverts and other pre-cast concrete elements.
 - o Construction of Berrys Bay foreshore parkland

Further information on the works comprising each stage is contained in Section 2.2.

2.1.1 The Staging Rationale

The rationale for the staged construction and operation of the project is based on the following considerations:

- Making the scope of the project more manageable by dividing the works into numerous construction contracts
- Ensure the following pre-construction activities are carried out ahead of main construction activities, to ensure they can continue unhindered:
 - Critical utility installation, relocation and protection.
 - o Cammeray Golf Course adjustment works.
 - o Installation of the Massey to Amherst noise wall.
 - o Installation of construction power and utilities for tunnelling support sites, and
 - Archaeological investigations.
- Minimising impacts on key stakeholders by relocating utilities and golf course facilities prior to the main works
- Limit as far as possible concurrent activities at any one time, minimising cumulative impacts within the construction footprint
- Action and satisfy proposed REMMs as detailed in the project EIS/RtS. This approach is intended to mitigate impacts on the community and environment, ahead of expected construction impacts
- Keeping with Government advice on staggering activities to limit the potential spread of COVID 19
- Result in a shorter construction program overall, as well as earlier completion of the asset.

The project will be operated in two stages, with the operation of the WFU and WHT projects commencing in accordance with the staged construction strategy.

2.2 Construction Stages

2.2.1 Early and enabling works

The early and enabling works comprise the following stages:

- Critical utility installation, relocation and protection (CUT).
- Cammeray Golf Course adjustment works (CGC).
- Massey to Amherst noise wall (M2A).
- Construction power and utilities for WHT (WHTCP), and
- Berry's Bay archaeological investigation works (BB).

2.2.1.1 Critical utility installation, relocation and protection (CUT)

The critical utility installation, relocation and protection stage of the project will include the following works:

- Alfred Street North, Neutral Bay
 - o Relocation of existing in-ground Sydney Water sewer mains
 - Relocation and undergrounding of existing Ausgrid overhead and in-ground assets
 - Relocation of existing communication provider assets, including Telstra (inground), Optus (including overhead and in-ground assets), TPG (in-ground assets) and NBN (in-ground assets)
- Arthur Street/High Street, North Sydney
 - Relocation of existing in-ground Ausgrid assets
 - Relocation of various in-ground communication provider assets, including Vocus,
 Optus, Verizon, TPG, UeComm and Telstra
 - Relocation of two existing Sydney Harbour Tunnel fire hydrant booster stations on Arthur Street and Mount Street
 - Relocation of existing in-ground 415V feed to Sydney Harbour Tunnel control room
 - Installation of enabling infrastructure and equipment for Sydney Harbour Tunnel ITS Gantry
- Cammeray Avenue / Ernest Street / Cammeray Golf Course
 - Relocation of existing in-ground Ausgrid assets
 - o Removal of existing disused in-ground 132kV and 33kV Ausgrid assets
 - Relocation of existing in-ground Sydney Water sewer and potable water mains
 - Relocation of existing in-ground UeComm communication provider assets
 - Installation of new permanent Intelligent Transport System (ITS) node and temporary connections
 - Installation of temporary construction power supply along Ernest Street from Ben Boyd Road to the Cammeray Golf Course site (WHT10).
- Sydney Harbour Bridge*
 - Installation of enabling infrastructure and equipment on the existing ITS Gantry
 - Gantry leg reinforcement
 - Installation of power and communications infrastructure

2.2.1.2 Cammeray Golf Course adjustment works (CGC)

The Cammeray Golf Course adjustment works include works required under REMMs WQ8 and LP7, and CoA E101, E197 and E209, including:

^{*}These works are the subject to a Heritage Impact Assessment and consistency assessment to demonstrate an improved outcome for the heritage impacts on the Sydney Harbour Bridge.

- Installation of a new permanent replacement stormwater harvesting dam (and associated infrastructure) within Cammeray Golf Course prior to decommissioning of the existing dam
- An active transport link through Cammeray Golf Course between Ernest Street and Warringa Road / Bells Avenue, Cammeray must be provided prior to the removal of the existing path, and
- Adjustments to the golf course to maintain its viability, including:
 - Demolition and removal of redundant paths
 - Installation of a temporary Active Transport Link*

*note: these works are proposed to be undertaken as low-impact works, prior to works under the CEMP, subject to the assessment outlined in section 3.3.1

- Vegetation trimming and removal
- Utility protection and adjustment works
- Earthworks and construction of retaining walls
- Installation of irrigation and drainage infrastructure for the 9 hole golf course
- Landscaping and plantings for 9 hole golf course.

2.2.1.3 Massey to Amherst Street noise barrier

The existing Massey to Amherst Street noise barrier is impacted by the widening of the Warringah Freeway and the installation of the new noise barrier is programmed to occur before the start of the construction of the Warringah Freeway Upgrade. The works will include:

- Vegetation trimming and removal
- · The demolition and removal of the existing noise wall section
- Excavation and civil works
- Construction of pile foundations and footings
- Construction and installation of new noise barrier
- Reinstatement works including backfilling, installation of rock face, fencing, and landscape paving
- Road reinstatement works including mill and re-sheet, and line marking.

2.2.1.4 Construction power and utilities for WHT

The construction power and utility installation for Western Harbour Tunnel has been cancelled due to further design development associated with the change in methodology for Stage 3C.

2.2.1.5 Berrys Bay archaeological investigation works (BB)

The ancillary facility proposed at Berrys Bay in the EIS (WHT7) is no longer required due to the change in construction methodology outlined in WHT Modification 2,

Due to the Berrys Bay masterplan works, and in accordance with the CoA and REMMs, TfNSW has undertaken archaeological investigation works at the BP Site, Waverton.

The archaeological investigation works included;

- Undertaking archaeological salvage excavations.
- Recording results, and
- · Reinstating site in original condition.

2.2.2 Warringah Freeway Upgrade project

The Warringah Freeway Upgrade works will include:

- Assessment and installation of at-property treatments and noise walls to mitigate construction noise from the project
- Site preparation works including clearing of vegetation, installation of temporary fencing and hoarding, installation of environmental controls including erosion and sedimentation controls
- Establishment of ancillary facilities at High Street south (WFU2), High Street north (WFU3), Arthur Street east (WFU4), Berry Street east (WFU5), Ridge Street east (WFU6), Merlin Street (WFU7), Cammeray Golf Course (WFU8), Rosalind Street (WFU9), Wicks Road (WFU10) and Northern Hub (NH1)
- Operation of ancillary facilities at High Street south (WFU2), High Street north (WFU3), Arthur Street east (WFU4), Berry Street east (WFU5), Ridge Street east (WFU6), Ridge Street North (WHT9), Merlin Street (WFU7), Cammeray Golf Course (WFU8), Rosalind Street (WFU9), Wicks Road (WFU10) and Northern Hub (NH1)
- Preparation of the Cammeray Golf Course construction support site for the benefit of the WHT works and proposed BL works
- Establishment and operation of the Wicks Road construction support site (WFU10) as the principal materials storage and stockpiling location.
- Utility installation, relocation and protection (in addition to the CUT stage works), including new and relocated drainage and installation of Intelligent Transport System (ITS):
 - Under bore and service relocation from Ernest Street through Cammeray Avenue to Rosalind Street
 - o ITS node construction (move from Ernest Street to Rosalind)
 - Northbound verge ITS trenching works (between Ch2800-Ch3050)
- CCTV and cleaning of existing drainage structure
- Construction of retaining walls, including excavation, piling, installation of concrete footings, provision of structural support (i.e., rock anchors or soil nails), shotcreting, drainage structures, installation of panels and backfilling of retaining wall structure
- Construction of the new Ridge Street Pedestrian Bridge, including localised excavation, piling, concrete works, roadworks, installation of bridge spans, stairs and ramp and demolition works
- Bridge modifications and widening works to the Mount Street bridge and Falcon Street bridge and entry and exit ramps including installation of traffic barriers, concrete works, installation of structural steel, installation of drainage, asphalting and line marking
- Realignment of traffic including demolition of existing barriers, rock walls, drainage, lighting and signage, asphalting works
- Construction of the bridge over Alfred Street exit ramp including excavation and concrete works
- High Street bridge widening and ramps including piling and concrete works

- Bulk earthworks for the widening of the Warringah Freeway into the Cammeray Golf Course, including the micro tunnel for the Green Park drainage pipe (1500mm diameter) from the (proposed) Beaches Link compound
- Construction of Warringah Freeway southbound bus lanes including piling and concrete works
- Construction of the Mount Street (North Street) and Ernest Street (Cammeray) underpasses including excavation, piling and concrete works.
- · Construction of the inner carriage way:
 - o Directional sign removal and relocation to Ernest Street
 - o Rock excavation and piling for the WHT cut and cover structure
- Demolition and construction of footpaths at the Falcon and Miller Street intersection
- Installation of stormwater drainage
- Upgrade or capacity improvements of other cross drainage structures which cross underneath the Warringah Freeway
- Upgrade and capacity improvements to the drainage pipelines along the on and off ramps connecting the Warringah Freeway with the existing culvert crossing near Brook Street at Cammeray/Crows Nest
- Upgrading local and arterial roads connecting to the Warringah Freeway Upgrade
- Road pavement works
- Installation of shared user paths and cycleways
- Surface finishing works such as line marking and the installation of directional signage and other roadside furniture
- Final landscape treatments and rehabilitation works
- · Testing and commission works
- Site clean-up and demobilisation including the reinstatement of construction support sites, post construction condition surveys, removal of construction-related signage, and the removal of construction-related environmental controls and traffic management infrastructure.

2.2.3 Western Harbour Tunnel Project (WHT)

The Western Harbour Tunnel project includes:

- Twin mainline tunnels about 6.5 kilometres long connecting the M4-M5 Link at Rozelle to the Warringah Freeway, near Cammeray
- A crossing of Sydney Harbour between Birchgrove and Balls Head using TBM methodology
- Underground connections to the M4-M5 Link project beneath Rozelle
- Tunnelled ramps and surface connections at Rozelle, North Sydney and Cammeray, including direct connections to and from the Warringah Freeway (including integration

- with the Warringah Freeway Upgrade), an off ramp to Falcon Street and an on ramp from Berry Street at North Sydney
- Fit out and commissioning of a ventilation outlet and motorway facilities at the Rozelle Interchange
- Construction of a ventilation outlet and motorway facilities at the Warringah Freeway in Cammeray
- Operational facilities including a motorway control centre at Waltham Street, in the Artarmon industrial area, and tunnel support facilities at the Warringah Freeway in Cammeray
- Other operational infrastructure including groundwater and tunnel drainage management and treatment systems, signage, tolling infrastructure, fire and life safety systems, lighting, emergency evacuation and emergency smoke extraction infrastructure, CCTV and other traffic management systems.
- Design and construction of Berrys Bay foreshore parkland.

2.2.3.1 Stage 3A - WHT Southern Tunnels Package

The WHT Southern Tunnels Package includes:

- Twin mainline tunnels about two kilometres long and each accommodating three lanes of traffic in each direction, connecting with the stub tunnels from the M4-M5 Link at Rozelle.
- Connections to the stub tunnels at the M4-M5 Link project in Rozelle.
- Ventilation cavern and tunnel excavation in Rozelle and Balmain.
- Limited in tunnel operational infrastructure including road pavement and drainage to enable Stage 3B works.

2.2.3.2 Stage 3B – WHT Northern Tunnelling and Integration works

The WHT Northern Tunnels work includes:

- Excavation of twin mainline tunnels about 2.5 kilometres long and each accommodating three lanes of traffic in each direction, connecting portals adjacent to the Cammeray Golf Course to the Harbour Crossing section of the tunnel at Berrys Bay.
- Excavation of Falcon Street off-ramp tunnel.
- Excavation of Berry Street on-ramp tunnel.
- Cut and cover infrastructure surface construction at the Ridge Street North construction support site (WHT9), Berry Street and the Warringah Freeway portals.
- Integration works including Mechanical and Electrical (M&E) fit out for the Southern and Northern tunnelling sections, paving, surface connections, ventilation cavern fit out, integration and fit out of the Motorway Operation Centre (MOC) and Motorway Control Centre (MCC)
- Establishment and operation of White Bay (WHT3) southern portion. The northern portion of WHT3 as described in the EIS will not be used); Ridge Street North (WHT9), and Cammeray Golf Course (WHT10) construction support sites.
- Operation of the City West Link Portal tunnelling support site (WHT12) after the completion of Stage 3A.

- Installation of acoustic structures.
- Utilities connections including but not limited to power, potable water, sewerage.
- Carrying out of surveys, test drilling, test excavations, geotechnical or contamination investigations or other tests or surveys, sampling or investigation

Noting that Stage 3B will be carried out concurrently with Stage 3C.

2.2.3.3 Stage 3C - WHT Sydney Harbour Crossing

The WHT Sydney Harbour Crossing work includes:

- Excavation of about 1.8 km of twin mainline tunnels using Tunnel Boring Machine (TBM) methodology.
- Construction of launch chambers beneath Birchgrove, and receival chambers and burial beneath the Waverton Peninsula.
- Establishment and operation of an underground slurry treatment plant within an existing ventilation cavern (constructed by the Stage 3A contractor).
- Establishment and operation of an underground Water Treatment Plant.
- Establishment and operation of an underground grout batching plant.
- Access and egress via City West Link Portal (WHT12) for:
 - Spoil removal.
 - Materials and equipment delivery, including concrete tunnel segments and box culverts.
- Use of Ridge Street North (WHT9) as a tunnelling support site, including the construction of an acoustic shed.
- Construction and operation of an additional construction ancillary facility at Emu Plains (WHT13), primarily for the prefabrication and storage of tunnel lining segments, box culverts and other pre-cast concrete elements.
- Design and construction of Berrys Bay foreshore parkland
- Noting that Stage 3B will be carried out concurrently with Stage 3C.

There are instances on the Project where installation, relocation, adjustment and protection of utilities services are required to be performed by the asset owner. Often these works are non-contestable and performed under the *Energy and Utilities Administration Act 1987* or other applicable legislations. These works would not fall under the Project's Planning Approval, and are not subject to the Project's management plans (C1–C21). The Project remains responsible to comply with Planning Approval condition E82 and E154 for the coordination of the works. These non-contestable works include:

Jemena gas installation work across Mackellar Street, Emu Plains

2.3 Operation Stages

Operation of the project would be staged as per construction staging, with the WFU stage to commence operation (2025) prior to the WHT stage (2028).

The staging report is focused on construction and any further proposed staging of operation will be addressed by revising the report as per CoA A14 (refer Section 2.5).

2.4 Indicative timing

Construction of the WHTWFU project commenced in 2021, with completion of construction in 2028. Early and enabling works as well as site establishment works, were programmed to be carried out first on the project, substantial construction starting in 2022.

An indicative construction and operational program is shown in Table 2 for each stage. The timing specific to each stage will be subject to review as the procurement processes evolve.

2.5 Changes to the Staging

Where changes are proposed to the staging of construction or operation, a revised Staging Report will be prepared, endorsed by the ER and submitted to the Planning Secretary for information no later than one month prior to the proposed changed in the staging.

2.6 Revisions to the CEMP and Sub-plans

Condition of Approval C10 states that "Where construction of the CSSI is staged, construction of a stage must not commence until the CEMP and sub-plans for that stage have been endorsed by the ER and approved by the Planning Secretary".

Where updates to the CEMP or Sub-plans are required for phases of the main construction stages, and these changes are minor; do not increase impacts to nearby receivers; or administrative in nature, the ER can approve these changes in accordance with CoA A27(i).

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Table 2: Indicative construction and operation stage timeframes

Stage	Indicative construction and operation program																																		
		2021				2022 2023				2024			2025				2026			2027				202	8			2029)						
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2 (Q3	Q4 (Q1 Q	2 Q:	3 Q4
1A – Critical utility installation, relocation and protection (CUT)		-					+		+		lack																								
1B – Cammeray Gold Course adjustment works							•				•																								
1C - Massey to Amherst noise barrier (M2A)				•			•																												
1D – Western Harbour Tunnel construction power (WHTCP)							•		\vdash																										
1E – Maritime Heritage (MH)													•																						
1F – Berry's Bay investigation works (BB)									•		•																								
2 – Warringah Freeway Upgrade (WFU)							•																												
3A – Western Harbour Tunnel (WHT) – Southern Tunnelling Works									•												_												•		—
3B – Western Harbour Tunnel (WHT) – Northern Tunnelling and										١,																									
Integration											<u> </u>																								
3C – Western Harbour Tunnel (WHT) – Harbour Crossing																														—)		•		\rightarrow

Construction
Operation

2.7 Cumulative impacts

Cumulative impacts may occur as a result of the project stages being constructed concurrently, or consecutively, with other stages of the project and/or other approved CSSI or SSI projects in the area, including Stage 1 Early and enabling works, Stage 2 Warringah Freeway Upgrade, Stage 3 Western Harbour Tunnel, WestConnex M4-M5 Link and Rozelle Interchange, Sydney Metro West and the proposed Beaches Link and Gore Hill Freeway Connection project (subject to approval).

TfNSW has elected to stage the Project in an effort to reduce cumulative impacts from the Project overall. This will result in a shorter construction program, reducing the impact and duration in any one work area, as well as an earlier completion of the asset.

Cumulative impacts during construction of the project stages will be managed through compliance with the relevant CoAs, coordination meetings between TfNSW, its contractors, external agencies and stakeholders, and environmental management measures related to key environmental impacts including traffic and access, noise and vibration and construction fatigue.

Key CoAs established to manage cumulative impacts during construction of the project stages include but are not limited to:

- E69 (Out-Of-Hours Work Protocol) to facilitate the coordination of out-of-hours work to ensure appropriate respite is provided to the community
- E82 (Utility Coordination and Respite) to coordinate and ensure respite periods are
 provided for all work undertaken for the delivery of the CSSI, including those undertaken
 by third parties (such as utility relocations)
- E83 (Out-of-Hours Works Community Consultation on Respite) to ensure appropriate respite periods for out-of-hours work are implemented in consultation with the community at each affected location on a regular basis
- E139 (Construction Parking Management) to manage light and heavy vehicle use associated with the CSSI and impacts to the community
- E140 (Construction Parking and Access Strategy) to manage impacts resulting from onand off-street parking changes during construction of the CSSI
- E154 (Utility Coordination Manager) to manage and coordinate all utility work associated with the delivery of the CSSI and to ensure respite is provided to the community

Further details of how compliance with these requirements will be achieved, monitored and reported during construction are provided in section 3.

Other mechanisms to mitigate cumulative impacts from the CSSI and its multiple stages are provided in sections 2.6.1 to 2.6.5.

2.7.1 Traffic management

Coordination meetings between TfNSW, Contractors and Transport Management Centre (TMC)/ Sydney Coordination Office (SCO) will occur on a regular basis throughout the delivery of the CSSI and its multiple stages. Key issues for discussion at the traffic coordination meetings will include ROLs and any other traffic changes or impacts as a result from the CSSI.

2.7.2 Noise mitigation

OOHW coordination meetings chaired by TfNSW, with representatives from other Contractors (and other projects stages and CSSI projects), including Utility Authorities, working in the vicinity of the project will occur on a weekly basis. The purpose of these meetings is to coordinate out of hours works, to minimise cumulative noise and vibration impacts and maximise respite for affected sensitive receivers as required by the Planning Approval.

TfNSW has also taken the proactive approach and has started to implement a project specific Noise Insulation Program for at property treatment to minimise noise impacts as a result of the CSSI. For further information on noise mitigation and the Noise Insulation Program, refer to https://v2.communityanalytics.com.au/rms/wht/noise.

2.7.3 Interface management

The project has multiple interfaces that will be managed, and specific interface agreements will be required for the purpose of facilitating and promoting coordination with relevant third parties such as utility providers and other CSSI/SSI projects.

TfNSW contractor's will be required to enter into an Interface Deed with Contractors and Utility Providers in which they interact with i.e., WFU Contractor will be required to enter into an Interface Deed with the WHT Contractor and the BL Contractor, to coordinate works and minimise cumulative impacts.

2.7.4 Visual amenity and landscape mitigation

The WHTWFU project elements at Cammeray will be constructed in close proximity to elements for the proposed BL project. When preparing the Beaches Link and Gore Hill Freeway Connection environmental impact statement operational landscape and visual amenity impacts were assessed cumulatively with the WFU project. The urban and landscape designs for both projects in this area will be developed to be sympathetic with and consistent with each other, thus minimising cumulative impacts from the projects.

2.7.5 Other measures to minimise cumulative impacts

In order to minimise cumulative impacts TfNSW will have oversight of projects' construction programs and the ability to identify potential cumulative impacts as to the duration and nature (visual, noise, traffic, business disruptions). Once the potential impacts are identified, TfNSW and its principal contractors will trigger appropriate management measures including; for example, hours of operation, respite and other noise mitigation measures (screening, community consultation as to alternate work programs etc.).

The suite of management measures best adapted to the impacted zone will be determined through community consultation. The steps to managing cumulative impacts are:

- Community Stakeholder and Engagement Managers' and Environment and Sustainability Managers' to identify suite of REMMs to address cumulative impact via liaison with Sydney Coordinating Office, Councils and other stakeholders or sensitive receivers
- Develop suitable suite of management measures applicable to the area
- Separation of time and place, staging/phasing works to minimise cumulative impacts
- Progressively build cumulative management measures into the respective CEMP/ Sub plans, for example CNVIS, and Traffic Management Plans for specific areas
- Monitor complaints to identify unexpected/emerging cumulative impacts



Up-date approach and revised CEMP and specific sub-plan updates, as needed.

3. Compliance

3.1 CoA and REMMs

The applicability of the CoA and REMMs to each stage of the project has been assessed, allocated and confirmed. These allocations to each stage of the project are tabled in Appendix A and Appendix B respectively:

- Where a CoA or REMM has been determined to be relevant to a stage, it is defined as Applicable to that stage. This indicates that the CoA or REMM will be fully complied with during the stage
- Where a CoA or REMM does not relate to the stage, it is defined as Not Applicable. This
 indicates that the CoA or REMM may not be complied with during the stage
- Where only part of a CoA or REMM relates to the stage, it is defined as Partial. This
 indicates that the CoA or REMM will be at least partially complied with during the stage
 to the degree explained in Appendix A or Appendix B.

In the event where there is a refinement in design or construction methodology, the change will be considered in the context of consistency with the Minster's approval for the Project. The applicability to the CoA and REMMs to that stage shall also be reviewed as part of the consistency assessment.

Should a project modification be undertaken that requires a change to the MCoAs or REMMs, the staging report will be revised, following approval of the modification, to reflect any changes to the condition allocations.

3.2 Construction Environmental Management Framework

Consistency in environmental management across each stage of the project will be achieved through the implementation of the WHTWFU Construction Environmental Management Framework (CEMF). The CEMF formed part of the Western Harbour Tunnel and Warringah Freeway Upgrade Response to Submissions Report (RtS) and provides a linking document to the Construction Environmental Management Plans (produced by the Proponent and contractors). A link to the CEMF contained in the RtS is provided in Appendix C.

The CEMF provides a whole-of-construction life-cycle approach to construction environmental management and sets the environmental and community engagement requirements for construction. More specifically, it details:

- The Construction Environmental Management Plans (CEMPs), sub-plans and other supporting documentation for each environmental management category (i.e., noise and vibration, visual amenity, etc.)
- Key issues that each sub plan would address, along with the relevant guidelines or requirements each plan would be prepared in accordance with.

The requirements of the CEMF have been allocated to each stage of the project by indicating the applicability of each section of the CEMF to each stage. These allocations are provided in Appendix C.

Compliance with the CEMF will help achieve the environmental performance outcomes for the project. These performance outcomes outline the broader objectives to be achieved by TfNSW in the design, construction and operation of the project.

3.3 Environmental management approach

The project contractors are required to adhere to and implement the requirements of the CEMF to a degree that is appropriate to the applicable stage of construction / operation. The applicability of the CEMF to each active stage allows for effective and efficient management of environmental issues that is commensurate to the impacts of each project stage on each environmental management category. Table 3 indicates the applicability of the requirements relating to each CEMF environmental management category to each stage of the project. This includes for each environmental management category:

- Whether a stand-alone sub-plan will be prepared ('Sub-plan')
- Whether the category risks will be addressed in the main CEMP document in the form of a procedure ('P'), or
- Whether the risk is not relevant to the scope of work and is not addressed within the CEMP (Not Applicable).

This assessment was based on each project stage's scope of work, relevant CoA and REMMs requirements. The corresponding CoA for each management plan or monitoring program are identified within the table. Additional plans and programs identified in the CoA, not specifically referenced in the CEMF have also been included. Table 3 also outlines the tool (i.e., CEMP or low impact works), which would be used to manage environmental requirements during the stage of the project.

3.3.1 Low impact works

Each stage of the project would include some "low impact work" (refer to definitions section and CoA), which would become "construction" following approval of the CEMP for that applicable stage. In some instances, "low impact work" for a later stage may occur following approval of a CEMP for an earlier, separate stage, e.g., "low impact work" undertaken as part of the Warringah Freeway Upgrade (Stage 2) may occur following approval of the CEMP for the Critical utility installation, relocation and protection stage in Stage 1A.

Low Impact Works will only occur after the following activities have been undertaken:

- · Consideration of relevant regulatory requirements
- Identification of relevant Conditions of Approval (CoA), Environmental Performance Outcomes (EPOs) and Revised Environmental Mitigation Measures (REMMs)
- Preparation of a Low Impact Works Approval Form to confirm that the works do not represent 'Construction' in accordance with the applicable planning approval. This application must include (as a minimum):
 - Detailed description of the proposed works
 - Environmental risk assessment (including identification of actual and potential environmental impacts)
 - Identification of mitigation measures to be implemented to address any actual or potential environmental risks and/or impacts (including details on community consultation relevant to the works)
 - o Environmental Control Map, or similar, and



 Endorsement by the Environmental Representative as necessary in accordance with the nature of the Low Impact Works and/or the definition of 'Construction' in the CSSI planning approval.

Table 3: CEMF and Construction Environmental Management Tool Applicable to each Stage

Stage	1A	1B	1C	1D	1E	2	3A	3B	3C
CEMF (Relevant CoA)	СПТ	CGC	M2A	WHTCP	ВВ	WFU	WHT STP	WHT NIW	wнт нс
Construction Environmental Management Tool	CEMP	СЕМР	СЕМР	Low Impact Works Approval	Low Impact Works Approval	CEMP	CEMP	СЕМР	СЕМР
Traffic, Transport and Access (CoA C4(a))	Sub-plan	Sub-plan	Sub-plan	Low-impact Assessment	Low-impact Assessment	Sub-plan	Sub-plan	Sub-plan	Sub-plan
Noise and vibration (CoA C4(b))	Sub-plan	Sub-plan	Sub-plan	Low-impact Assessment	Low-impact Assessment	Sub-plan	Sub-plan	Sub-plan	Sub-plan
Flora and Fauna (CoA C4(c))	Р	Sub-plan	Р	Low-impact Assessment	Low-impact Assessment	Sub-plan	Р	Sub-plan	Sub-plan
Air Quality (CoA C4(d))	Р	Р	Р	Low-impact Assessment	Low-impact Assessment	Sub-plan	Sub-plan	Sub-plan	Sub-plan
Soil and Surface Water (CoA C4(e))	Р	Sub-plan	Р	Low-impact Assessment	Low-impact Assessment	Sub-plan	Sub-plan	Sub-plan	Sub-plan
Groundwater (CoA C4(f))	N/A	N/A	N/A	N/A	N/A	Р	Sub-plan	Sub-plan	Sub-plan
Maritime Heritage (CoA C4(g))	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Sub-plan
Non-Aboriginal Heritage (CoA C4(h))	Р	Р	Р	Low-impact Assessment	Low-impact Assessment	Sub-plan	Р	Sub-plan	Sub-plan
Aboriginal Cultural Heritage (CoA C4(i))	Р	Р	Р	Low-impact Assessment	Low-impact Assessment	Р	Р	N/A	Sub-plan
Dredging and Disposal (CoA C4(j))				F	emoved as part of MOD2				
Noise and vibration monitoring program (CoA	Included in sub-	Included in sub-	Included in sub-	Low-impact Assessment	Low-impact Assessment	Included in sub-	Included in sub-	Included in sub-	Included in sub-
C11(a))	plan	plan	plan	Low-impact Assessment	Low-impact Assessment	plan	plan	plan	plan
Air Quality Monitoring Program (CoA C11(b))	D	Р	D	Low-impact Assessment	Low-impact Assessment	Included in sub-	Included in sub-	Included in sub-	Included in sub-
All Quality Monitoring Program (COA CTI(b))	r		-	Low-impact Assessment	Low-impact Assessment	plan	plan	plan	plan
Surface Water Monitoring Program (CoA C11(c))	Р	Р	Р	Low-impact Assessment	Low-impact Assessment	Included in sub- plan	Included in sub plan	Included in sub- plan	Included in sub- plan
Groundwater Monitoring Program (CoA C11(d))	N/A	N/A	N/A	N/A	N/A	Р	Included in sub plan	Included in sub- plan	Included in sub- plan
Marine Monitoring Program (CoA C11(e))				F	emoved as part of MOD2				
Dredging Monitoring Program (CoA C11(f))				F	emoved as part of MOD2				

Note: Should a project modification be undertaken that requires a change to the MCoAs or REMMs, Table 3 will be revised and amended to illustrate CEMF approaches, following approval of the modification, to reflect any changes to the condition allocations.

3.4 Compliance Monitoring

Several layers of compliance checking will be applied during the construction of the CSSI. Contractors will maintain their own internal audit program to ensure they meet the requirements set out in the CoA and contract. TfNSW will conduct an additional auditing program across all stages with a specific focus on compliance with the conditions of approval. TfNSW will monitor compliance with the Planning Approval across all stages through surveillance, environmental inspections, record-keeping and contractor compliance reporting.

TfNSW has engaged an independent ER and Acoustic Advisor (AA) for the early and enabling works relating to WFU (Stage 2). TfNSW has engaged a separate ER and AA for WHT Stage 3A, Stage 3B and Stage 3C, and WHT Stage 1E. The ERs will:

- Undertake regular site inspections with the Contractor's environmental managers and TfNSW representatives
- Review compliance with the approvals on a periodic basis
- Review management plans and provide advice in relation to the level of risk associated with construction works
- Provide independent advice on matters relating to compliance to the Contractors, TfNSW and DPHI if requested.

3.5 Independent Environmental Auditing

Independent Audits of the CSSI will be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (DPIE, 2020).

The purpose of an Independent Audit is to obtain an independent and objective assessment of the environmental performance and compliance status of a project. Independent Audits differ from other compliance reporting requirements that may apply as they are undertaken and reported by an independent auditor, rather than an Authorised Reporting Officer. Proposed independent auditors will be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit.

Appendix A Applicability of Conditions of Approval to each stage

Table 4 has been based on the WHTWFU conditions of approval as issued by DPHI on 27 January 2024. This document is attached at the end of this table.

Items listed as "Not Applicable" have been identified as CoAs that will not be triggered under the scope of the relevant project stage. As identified in Section 3.1, should a project modification be undertaken that requires a change to the MCoAs or REMMs, the following table will be updated, following approval of the modification, to reflect any changes to the condition allocations.

Table 4: Applicability of Conditions of Approval to each Stage

CoA Topics	CoA	CUT [†]	CGC⁺	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	A1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
General —	A4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
General —	A5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise Insulation Program	А9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	A10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Staging —	A12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Staging —	A13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Ancillary Facilities	A16	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Site- Establishment Works	A17	Not Applicable	Not Applicable	Not Applicable	Not Applicable – minor construction ancillary facilties would be established and operated in accordance with the low impact works approval	Not Applicable – minor construction ancillary facilities would be established and operated in accordance with the low impact works approval	Applicable	Not Applicable	Applicable	Applicable
	A18	Applicable	Applicable	Applicable	Applicable	Not Applicable – the works are defined as Low Impact Works and so the	Applicable	Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
						requirements of the CEMP do not apply				
	A18A	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	A19	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A20	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Independent Appointment Environmental Representative Acoustics Advisor	A21	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A22	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A23	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A24	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A25	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A26	Applicable – the Proponent will engage two Environmental Representatives – one for WFU works and one for WHT works	Applicable – the Proponent will engage two Environmental Representatives – one for WFU works and one for WHT works	Applicable – the Proponent will engage two Environmental Representatives – one for WFU works and one for WHT works	Applicable – the Proponent will engage two Environmental Representatives – one for WFU works and one for WHT works	Applicable	Applicable	Applicable	Applicable	Applicable
	A27	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A28	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A29	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A30	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A31	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A32	Applicable – the Proponent will engage two Acoustic Advisors – one for WFU works and one for WHT works	Applicable – the Proponent will engage two Acoustic Advisors – one for WFU works and one for WHT works	Applicable – the Proponent will engage two Acoustic Advisors – one for WFU works and one for WHT works	Applicable – the Proponent will engage two Acoustic Advisors – one for WFU works and one for WHT works	Applicable	Applicable	Applicable	Applicable	Applicable
	A33	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A34	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Notification of Commencement Auditing	A35	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A36	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A37	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	A38	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	A39	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	A40	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	A41	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	A42	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	A43	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
Incident and Non-	A44	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Compliance Notification and	A45	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Reporting	A46	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Identification of	A47	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Workforce and Compounds	A48	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	B1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Community	B2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Information, — Consultation and	В3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Involvement	B4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	B5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Public Liaison Officer	В6	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	В7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	B8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	В9	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Complaints	B10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Management — System	B11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	B12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	B13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	B14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Provision of Electronic Information	B15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Construction Environmental Management Plans	C1	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage	Not Applicable – the WHTCP are defined as 'low impact works' and are not construction; environmental risks associated with the works will be addressed in accordance with Table 3.	Not Applicable – the BB works are defined as 'low impact works' and are not construction; environmental risks associated with the works will be addressed in accordance with Table 3.	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage
	C2	Applicable	Applicable	Applicable	Not Applicable – refer to Table 3	Not Applicable – refer to Table 3	Applicable	Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC⁺	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	С3	Applicable	Applicable	Applicable	Not Applicable refer to Table 3	Not Applicable – refer to Table 3	Applicable	Applicable	Applicable	Applicable
	C4	Partial – refer to Table 3	Partial – refer to Table 3	Partial – refer to Table 3	Not Applicable – refer to Table 3	Not Applicable – refer to Table 3	Partial – refer to Table 3	Partial – refer to Table 3	Partial – refer to Table 3	Applicable
	C5	Applicable	Applicable	Applicable	Not Applicable	Not Applicable – refer to Table 3	Applicable	Applicable	Applicable	Applicable
_	C6	Partial – refer to Table 3	Applicable	Partial – refer to Table 3	Not Applicable – refer to Table 3	Not Applicable – refer to Table 3	Applicable	Not Applicable	Applicable	Applicable
_	C7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – refer to Table 3	Not Applicable	Not Applicable	Not Applicable	Applicable
	C8*									
	С9	Applicable	Applicable	Applicable	Not Applicable	Not Applicable – refer to Table 3	Applicable	Applicable	Applicable	Applicable
_	C10	Applicable	Applicable	Applicable	Not Applicable	Not Applicable – refer to Table 3	Applicable	Applicable	Applicable	Applicable
	C11	Partial – refer to Table 3	Partial – refer to Table 3	Partial – refer to Table 3	Not Applicable – refer to Table 3	Not Applicable – refer to Table 3	Partial – refer to Table 3	Partial – refer to Table 3	Applicable	Applicable
	C12	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	C13	Applicable	Applicable	Applicable	Not Applicable – refer to Table 3	Not Applicable – refer to Table 3	Applicable	Applicable	Applicable	Applicable
_	C14	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
Construction — Monitoring	C15*									
Programs	C16*									
_	C17	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	C18	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	C19	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	C20	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	C21	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
-	D1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Operational	D2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Environmental — Management	D3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	D4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	D5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
Operational	D6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
Monitoring — Program	D7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	D8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	D9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	D10	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	D11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	D12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	D13	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Air Quality and	E2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
Odours	E3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	E4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
Air Quality Goals	E8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E10	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and	Applicable for design and

CoA Topics	СоА	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
									construction elements of this condition.	construction elements of this condition.
	E13	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E14	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E15	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E16	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E17	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E18	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E19	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E20	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E21	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E22	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E23	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition

CoA Topics	СоА	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E24	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E25	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E26	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E27	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E28	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
Ambient Air Quality	E29	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E30	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E31	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E32	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E33	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.
	E34	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable for design and construction elements of this condition.	Applicable for design and construction elements of this condition.

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E35	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E36	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E37	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E38	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E38A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E39	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable
	E40	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E40A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E41	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Microbat Monitoring Program will be developed if it is determined that microbats will be impacted by the work in this stage.	Microbat Monitoring Program will be developed if it is determined that microbats will be impacted by the work in this stage.
Biodiversity	E42	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not triggered unless E41 is triggered.	Not triggered unless E41 is triggered.
	E43	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not triggered unless E41 is triggered.	Not triggered unless E41 is triggered.
	E44	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not triggered unless E41 is triggered.	Not triggered unless E41 is triggered.
	E45*									
	E46*									
	E47*									
	E48	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E49	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
ElII	E49A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
Flooding	E49B	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E49C	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC⁺	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
Aboriginal Cultural Heritage	E50	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E51	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	E52	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E53*									
	E54*									
	E55	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E56	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	E57	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	E58	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
Non-Aboriginal — Heritage	E59	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable – if triggered by E58	Applicable – if triggered by E58
	E60	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable – if triggered by E58	Applicable – if triggered by E58
	E61	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable – if triggered by E58	Applicable – if triggered by E58
	E62	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable – if triggered by E58	Applicable – if triggered by E58
	E63	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E64	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	E65	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E66	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E67	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E68	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E69	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise and Vibration	E70	Applicable	Applicable	Applicable	Applicable – works exceeding noise management levels and / vibration criteria would be managed in accordance with low impact works approval	Applicable – works exceeding noise management levels and / vibration criteria would be managed in accordance with low impact works approval	Applicable	Applicable	Applicable	Applicable
_	E71	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E72	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E73	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E74	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E74A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
_	E75	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E76	Applicable	Applicable	Applicable	Applicable – properties would be identified in the low impact works approval	Applicable – properties would be identified in the low impact works approval	Applicable	Applicable	Applicable	Applicable
	E77	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E78	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E79	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E80	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	E81	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
-	E82	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	E83	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E84	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	E85	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
-	E86	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	E87	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	E88	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E88A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E88B	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E88C	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E88D	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E89	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E90	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E91	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E92	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E93	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E94	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	E95	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E96	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E97	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E98	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E99	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
Socio Economic Land Use and Property	E100	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Cammeray Golf Course	E101	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	E102	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E103	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Settlement	E104	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E105	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E106	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E107	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E108	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E109	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Condition Survey	E110	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E111	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E112	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E113	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Soils	E114	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E115	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	E116	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	E117	Partial – all requirements will be complied with fully, with the exception of (i) where the parcel of land is being handed over to another stage of the Project	Applicable	Applicable	Partial – all requirements will be complied with fully, with the exception of (i) where the parcel of land is being handed over to another stage of the Project	Applicable	Applicable	Not Applicable	Applicable	Applicable
Contaminated — Land	E117A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E118	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable if triggered	Applicable
_	E119	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable if triggered	Applicable
	E120	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable if triggered	Applicable
	E121	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable if triggered	Applicable

CoA Topics	СоА	CUT†	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E122	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable if triggered	Applicable
_	E123	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E124	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E125	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Sustainability	E126	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable-partial	Applicable	Applicable
_	E127	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable-partial	Applicable	Applicable
_	E128	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E129	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E130	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E131*									
_	E132	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E133	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E134*				•					
	E135	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E135A	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	E136	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E137	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E138	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Traffic and Transport	E139	Applicable	Applicable	Applicable	Applicable – mitigation measures would be implemented through the low impact works approval	Applicable – mitigation measures would be implemented through the low impact works approval	Applicable	Applicable	Applicable	Applicable
_	E140	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	E141	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	E142	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	E143	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	E144	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	E145	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	E146	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	E147	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable - Operational condition

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E148	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
	E149	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	E150	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E151*									
	E152*									
	E153	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable – Operational condition	Not Applicable – Operational condition
Utilities Management	E154	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E155	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E156	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E157	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E158*									
	E159	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E160	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E161	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E162	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E163	Not Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E164	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Place, Design and	E165	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Visual Amenity	E166	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E167	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E168	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E169	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E170	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E171	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E172	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	E173	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	E174	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E175	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	E176	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E177	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E178	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E179	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E180	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E181	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E182	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable
	E183	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E184	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E185	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E186	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E187	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E188*									
	E189	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E190	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E191	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	E192	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E193	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E194	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	E195	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E196	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E197	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E198	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E199	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E200	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E201	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Waste	E202	Applicable	Applicable	Applicable	Applicable	Not Applicable – no importation of waste is required for the Works	Applicable	Applicable	Applicable	Applicable
	E203	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E204*									
	E205	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Water	E206	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable

CoA Topics	CoA	CUT [†]	CGC⁺	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	E207	Applicable	Applicable	Applicable	Applicable	Not Applicable – there will be no Works on riparian corridors	Applicable	Applicable	Not Applicable – there will be no Works on riparian corridors	Applicable
	E208	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E209 [†]	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	E210	Applicable	Applicable	Applicable	Not Applicable - The Works are defined as Low Impact Works with no planned stormwater discharges	Not Applicable - The Works are defined as Low Impact Works with no planned stormwater discharges	Applicable	Applicable	Applicable	Applicable
	E211	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	E212*									
	E213*									
_	E214*									
_	E215*									
_	E216	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E217	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	E218	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	E219	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	E220	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	E221	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	E222	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E223	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	E224	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable

^{*} N.B. This CoA was removed as a result of WHT Modification 2

[†] Stages listed as 'completed'

Appendix B: Applicability of REMMs to each Stage

Table 5 has been based on the latest version of the Revised Environmental Management Measures taken from Part D of the RtS of the Western Harbour Tunnel and Warringah Freeway Upgrade Environmental Impact Statement and Appendix B of the Western Harbour Tunnel and Warringah Freeway Upgrade Modification – Wicks Road Construction Support Site Submissions Report (May 2023). These documents can be found here:

WHTWFU EIS RtS: https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=EXH-2682%2120200914T005951.156%20GMT

WHTWFU Modification 1-Wicks Road Submissions Report: https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=EXH-49626988%2120230607T001713.406%20GMT

WHTWFU Modification 2-TBM construction methodology: https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=SSI-8863-MOD-2%2120230719T005051.813%20GMT

Items listed as "Not Applicable" have been identified as REMMs that will not be triggered under the scope of the relevant project stage. As identified in Section 3.1, should a project modification be undertaken that requires a change to the REMMs, the following table will be updated, following approval of the modification, to reflect any changes to the allocations.

Table 5: Applicability of REMMs to each active stage

REMM Topic	REMM	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	BB	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	CTT1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	CTT2*									
_	CTT3*									
	CTT4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CTT5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	CTT6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CTT7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CTT8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
 	СТТ9	Applicable	Applicable	Applicable	Applicable	Not Applicable – parking impacts will be minimal from the Works	Applicable	Applicable	Applicable	Applicable
Construction	CTT10	Applicable	Not Applicable	Applicable	Not Applicable – no impact to bus stops proposed as part of the Works	Not Applicable – parking impacts will be minimal from the Works	Applicable	Not Applicable	Applicable	Not Applicable
_	CTT11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	CTT12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CTT13	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	CTT14*									
_	CTT15*									
	CTT16*									
	CTT17*									
	CTT18*									
	CTT19	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	OT1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
raffic and Transport	OT2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
Operations	OT3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	OT4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
Noise and Vibration	CNV1	Applicable	Applicable	Applicable	Not Applicable – construction noise and vibration impacts will be managed through the low impacts works	Not Applicable – construction noise and vibration impacts will be managed through	Applicable	Applicable	Applicable	Applicable

REMM Topic	REMM	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
					approval as per Table	the low impacts				
					3	works approval as				
						per Table 3				
	CNV2	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	CNV3	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV4	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV8	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	CNV10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	CNV11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
									Not Applicable –	Not Applicable –
	ONV1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Operational	Operational
									condition	condition
									Not Applicable –	Not Applicable –
	ONV2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Operational	Operational
									condition	condition
									Not Applicable –	Not Applicable –
	ONV3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Operational	Operational
									condition	condition
Air Quality	AQ1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
7 iii Quanty	AQ2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Human Health	HH1*									
Tramair Toatti	HH2*									
	NAH1	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	NAH2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	NAH3	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	NAH4	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	NAH5	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	NAH6*									
	NAH7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	MAH8	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	NAH9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
Non-Aboriginal	NAH10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Heritage	NAH11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH13	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	NAH14	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	NAH15*									
	NAH16	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	NAH17*									
	NAH18	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	NAH19*									
	NAH20*									

REMM Topic	REMM	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	BB	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	NAH21*									
-	NAH22*									
-	NAH23*									
-	NAH24*									
-	NAH25*									
	AH1									
-	AH2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
-	AH3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
-	AH4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Aboriginal Cultural	AH5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Heritage	AH6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	AH7*									
	AH8*									
·	AH9*									
	AH10	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	SG1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
·	SG2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
·	SG3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
·	SG4	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
·	SG5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
·	SG6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
·	SG7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
·	SG8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	SG9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable
						Not Applicable –				
		Not Applicable – waste	Not Applicable – waste	Not Applicable – waste	Not Applicable – waste	waste mitigation				
		mitigtion measures to be implemented during	mitigtion measures to be implemented during	mitigtion measures to	mitigtion measures to be implemented during	measures to be				
	SG10	this activity will be	this activity will be	be implemented during this activity will be	this activity will be	implemented during	Applicable	Applicable	Applicable	Applicable
		managed through a	managed through a	managed through a	managed through a	this activity will be	1.1	F F		F-F
Geology, Soils and		procedure as identified			procedure as identified	managed through a				
Groundwater		in Table 3.	in Table 3.	in Table 3.	in Table 3.	procedure as				
-	0011					identified in Table 3.				
-	SG11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	SG12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable
-	SG13	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Partial	Not Applicable
-	SG14	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
-	SG15*									
-	SG16*	Mari A a Pari II.	Alst Assiltantia	Mat A a Parkita	Mari A a d'a abila	Not Applicable	A malia alala	Amaliaalda	Not Amalicable	A multipolation
-	SG17	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable
-	SG18	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
-	SG19	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
-	SG20	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
-	SG21	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
-	SG22	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	SG23	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	WQ1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

REMM Topic	REMM	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	BB	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	WQ2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	WQ3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
_	WQ4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
-	WQ5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
-	WQ6*	Not Applicable	Not Applicable	Not Applicable	Not Applicable					
Hydrodynamics and	WQ7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Water Quality	WQ8	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
-	WQ9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
-	WQ10	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
-	WQ11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	WQ12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
-	WQ13	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	F1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	F2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable
_	F3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	F4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	F5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	F6	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Flooding -	F7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	F8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	F9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	F10	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
_	F11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
_	F12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	B1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
_	B2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
_	В3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	B4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	B5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
_	В6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable – The Works would not be carried out during the microbat	Not Applicable	Not Applicable	Applicable	Applicable
Biodiversity -						roosting period of March to September				
	B7*									
-	B8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	B9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	B10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	B11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
_	B12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
_	B13*									
<u>-</u>	B14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	B15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
_	B16*									
_	B17*									

REMM Topic	REMM	CUT [†]	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	B18	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable
_	B19*									
_	B20*									
	B21*									
	B22*									
_	B23*									
_	B24*									
_	B25*									
	B26*									
	B27*									
<u> </u>	B28*									
<u>_</u>	B29	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
_	B30*									
_	B31	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	B32	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
_	B33	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable
_	B34	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	B35	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	LP1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	LP2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LP3	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LP4*	Not Applicable	Not Applicable	Not Applicable	Not Applicable					
Land Use and Property	LP5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	LP6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	LP7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	LP8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	LP9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	SE1	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Socio Economics –	SE2	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
- Joelo Economics –	SE3	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
	SE4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	BU1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Not Applicable
Business	BU2	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	BU3	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
_	V1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	V2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	V3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	V4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	V5	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Landscape Character	V6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
and Visual Amenity	V7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	V8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	V9	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	V10	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	V11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
_	V12	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable

REMM Topic	REMM	CUT†	CGC [†]	M2A [†]	WHTCP [†]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	HR1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	HR2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	HR3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable
-	HR4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable
-	HR5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable
-	HR6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
-									Not Applicable –	Not Applicable –
	HR7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	operational	operational
Hazards and Risks									condition	condition
-									Not Applicable –	Not Applicable –
	HR8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	operational	operational
_									condition	condition
									Not Applicable –	Not Applicable –
	HR9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	operational	operational
<u>-</u>									condition	condition
<u>-</u>	HR10	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	HR11	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
_	WM1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	WM2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	WM3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	WM4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Resource and Waste					Not Applicable –	Not Applicable –				
Management	WM5	Applicable	Applicable	Applicable	wastwater will not be	wastewater will not	Applicable	Applicable	Applicable	Applicable
Management	*******	, ipplicuste	, ipplicusto	7.661.042.0	generated by the Works	be generated by the	Applicable	Applicable	Applicable	rippilodisto
<u>-</u>						Works				
<u>-</u>	WM6	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
<u>-</u>	WM7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	WM8	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
Sustainability -	SU1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	SU2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Climate change risks	CC1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Greenhouse Gas	GHG1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable
Assessment	GHG2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
<u>-</u>	CI1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Cumulative impacts -	CI2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
-	CI3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
_	CI4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

^{*} N.B. This REMM was removed as a result of WHT Modification 2

[†] Stages listed as 'completed'

Appendix C: Applicability of CEMF to each active stage

Table 6 has been based on the latest version of the Construction Environmental Management Framework that was included in Part D of the RtS. This document can be found here:

https://majorprojects.planningportal.nsw.gov.au/prweb/PRRestService/mp/01/getContent?AttachRef=EXH-2682%2120200914T005951.156%20GMT

Table 6: Applicability of CEMF to each active stage

CEMF Topic	Key issue	CUT [‡]	CGC [‡]	M2A [‡]	WHTCP [‡]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	Construction traffic and access management objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Construction traffic and access management implementation including:									
	Traffic staging plans	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Traffic management	Traffic control plans and identification of truck marshalling areas	Applicable – traffic control plans Not applicable – truck marshalling areas	Applicable – traffic control plans Not applicable – truck marshalling areas	Applicable – traffic control plans Not applicable – truck marshalling areas	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
plan	Pedestrian management plans	Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
•	Parking management plans	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	Heavy vehicle hauling routes	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	Construction traffic and access mitigation including: Monitoring and inspection requirements Compliance records Driver certification requirements	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Marine works and										
marine traffic										
management plans*	Have of construction	A 1: 11	A 1: 11	A 1: 11	A 1: 11	Amuliaahla	A mustic abla	Amuliaalda	A mustica alata	Amaliaabla
	Hours of construction Construction noise and vibration	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	management objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Construction noise and vibration management implementation including the requirements of environmental management measure CNV1 (refer to Table D2-1 of this submissions report)	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise and vibration management plan	Construction noise and vibration impact statements for all construction support sites and major construction works required for the project as required by environmental management measure CNV2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Out of hours works protocol as required by environmental management measure CNV3 including: Details of works required outside standard construction hours, including acceptable justifications for works outside of standard construction hours,	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable

CEMF Topic	Key issue	CUT‡	CGC [‡]	M2A [‡]	WHTCP [‡]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	what types of works are allowed									
	to take place outside of									
	construction hours, and									
	justifications of why the activities									
	are required outside standard									
	construction hours									
	Details of the assessment and									
	approval process (internal and									
	external) for works proposed									
	outside standard construction									
	hours									
	Noise and vibration mitigation and									
	management measures that are									
	to be considered and									
	implemented where appropriate									
	to manage potential impacts									
	associated with works outside									
	standard construction hours									
	The noise and vibration impact									
	assessment processes that will									
	be followed to identify potentially									
	affected receivers, clarify									
	potential impacts and determine									
	appropriate mitigation and									
	management measures									
	Construction noise and vibration									
	mitigation including:									
	Monitoring and inspection	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	requirements	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,					
	Compliance records									
	Blast Management Strategy as									
	required by environmental									
	management measure CNV9 which									
	will:									
	Detail the blasting to be									
	performed including location,									
	method and justification of the									
	need to blast									
	Identify any potentially affected									
	noise and vibration sensitive sites									
	including heritage buildings and									
	utilities	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	Establish appropriate criteria for	Not Applicable	Not Applicable	ног Аррисавіе	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	blast overpressure and ground									
	vibration levels at each category									
	of noise sensitive site									
	Detail storage and handling									
	arrangements for explosive									
	materials and the proposed									
	transport of those materials to									
	the construction support site									
	 Identify hazardous situations that 									
	may arise from the storage and									
	may arise from the storage allu									

CEMF Topic	Key issue	CUT [‡]	CGC‡	M2A [‡]	WHTCP [‡]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	handling of explosives, the									
	blasting process and recovery of									
	the blast site after detonation of									
	the explosives									
	Determine potential noise and									
	vibration and risk impacts from									
	blasting and appropriate best									
	management practices									
	Detail community consultation									
	procedures.									
	Note – the Blasting Management									
	Strategy may not form part of the									
	CNVMP and may be a separate									
	plan									
	Air Quality Objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Air quality management									
	implementation including:									
	Details of standard construction									
	air quality mitigation and									
	management measures required									
A ! ! #	by environmental management	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Air quality	measure AQ1 (refer to Table D2-1									
management plan	of this submissions report									
	Odour management measures for									
	odour from sediments and acid									
	sulfate soils (if confirmed)									
	Air quality mitigation including:									
	Compliance records	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Monitoring and inspection									
	requirements									
	Waste and spoil management objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	-									
	Waste and spoil management implementation including procedures									
Vaste and resource	for handling and storing potentially	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
use	contaminated substances									
use	Waste and spoil mitigation including:									
	Monitoring and inspection									
	requirements	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Compliance records									
	Soil, surface water and contamination									
	management objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Soil, surface water and contamination									
	management implementation									
	including:									
	Erosion and sediment control									
Soil and water	plans	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
management plan	Management responses to									
	contaminated sediments (if									
	confirmed), including remediation					A 11 7 7	A	A1 / A 11 11	A	A
	action plans (in accordance with	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	environmental management									
	measure SG2).									
stern Harhour Tunnel a	nd Warringah Freeway Upgrade Staging Report	-September 2024								5

CEMF Topic	Key issue	CUT‡	CGC [‡]	M2A [‡]	WHTCP [‡]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	 Acid sulfate soil management plans 	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Applicable
	Emergency spill procedures	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Dewatering plans (including aquatic fauna relocation requirements)	Applicable – excluding aquatic fauna relocation requirements	Applicable	Applicable – excluding aquatic fauna relocation requirements	Applicable – excluding aquatic fauna relocation requirements	Not Applicable	Applicable	Applicable – excluding aquatic fauna relocation requirements	Applicable	Applicable
	Water quality monitoring and management	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	Soil, surface water and contamination mitigation including: Monitoring and inspection Compliance records	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Construction flood emergency management measures including requirements for construction support sites to manage risks to adjoining properties.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	Flooding-related self-directed evacuation or evasion objectives	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
Flood Emergency management plan	 Flood Emergency management implementation including: Evacuation procedures and actions Warning monitoring and trigger actions 	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	Groundwater management objectives	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
Groundwater management plan	 Groundwater management implementation including: Additional modelling requirements Acceptable groundwater inflow levels Ground movement management and minimisation requirements 	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
	 Groundwater mitigation including: Monitoring and inspection requirements Compliance records 	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable
Dredging management plan*										
	Flora and fauna management objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Flora and fauna	Flora and fauna management implementation including:									
management plan	Seagrass monitoring and management	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	 Intertidal and rocky reef management 	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable

CEMF Topic	Key issue	CUT [‡]	CGC [‡]	M2A [‡]	WHTCP [‡]	ВВ	WFU	WHT Stage 3A	WHT Stage 3B	WHT Stage 3C
	 Marine mammals and reptile management 	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	Unexpected flora and fauna finds procedure	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Stop works procedure	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Weed management measures	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable
	Dewatering management	Applicable	Applicable	Applicable	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable
	Large Bent-winged Bat management	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	Powerful Owl management and monitoring	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	Flora and fauna mitigation including: • Monitoring and inspection requirements • Compliance records	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Heritage management objectives	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	Heritage management implementation including Aboriginal and non-Aboriginal heritage unexpected finds procedures	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Heritage management plan	Maritime heritage management detailing the objectives and methodologies to conserve maritime heritage and to minimise impacts.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	Heritage mitigation including: Monitoring and inspection requirements Compliance records	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

^{*} N.B. This requirement was removed as a result of WHT Modification 2

[†] The relevant works applicable to this condition and CEMF Tool are yet to be awarded; this staging report will be updated to reflect once confirmed, and assigned to one of the active Stages ‡ Stages listed as 'completed'

Appendix D: Aspect and impact registers

- Stage 2 Warringah Freeway Upgrade (WFU)
- Stage 3A Western Harbour Tunnel Southern Tunnel Works (WHT Stage 3A)
- Stage 3B Western Harbour Tunnel Northern Tunnelling and Integration works (WHT Stage 3B) and Stage 3C – Western Harbour Tunnel Crossing (WHT Stage 3C) are combined as works are managed under one set of CEMP and CEMP sub-plans

This Environmental Aspects and Impacts Register has been prepared by CPBDJV, to supplement the Environmental Risk Analysis conducted as part of the Environmental Assessment (EA).

The identification of significant construction activities and associated impacts that could eventuate during construction of the Project is central to the selection of appropriate environmental safeguards.

The risk management process involved an assessment of all specific project activities/aspects in or near environmentally sensitive areas and resulted in the development of a list of environmental risks (effects and impacts) and a corresponding risk mitigation strategy and risk ranking. Each environmental risk was categorised, based on the following:

- The environmental aspect
- Relative scale of the potential impact
- Type of potential impact
- Likelihood of occurrence.

The identification of risks included a review of the proposed works, the CoA, REMM, and review of the environmental risks identified by the EA and subsequent Submissions Report.

The following risk assessment process has been implemented, together with a review of proposed activities and known risks based on past project experience.

Risk Assessment Process

The following tables outline the risk assessment process using 3 steps to identify the appropriate management measures required.

Table 1 is used to determine the likelihood that the aspect will have an impact on the environment.

Table 2 is used to determine the potential consequence rating of the risk identified

From these two tables, a risk rating can then be assigned by using Table 3 to determine how severe the potential impact may be and what level of management each type of risk will require.

Table 1: Likelihood criteria

Score		Description	Percentage	Expected Frequency
5	Almost Certain	Common / Frequent Occurrence	Can be expected to occur 75% - 99%	More than 1 event per month
4	Likely	Is known to occur or "It has happened regularly"	Can quite commonly occur 50% - 75%	More than 1 event per year
3	Possible	Could occur or "I've heard of it happening"	May occasionally occur 25% - 50%	1 event per 1 to 10 years
2	Unlikely Not likely to occur very often		May infrequently occur 10% - 25%	1 event per 10 to 100 years
1	Rare	Conceivable but only in exceptional circumstances	May occur in exceptional circumstances 0% – 10%	Less than 1 event per 100 years

Table 2: Consequence criteria

Consequence Rating	1	2	3	4	5
Consequence Kating	Negligible	Minor	Moderate	Major	Substantial
Safety and Health First Aid Treatment (or No treatment)		Medical Treatment Injury	Lost Time Injury	Permanent Injury (Paraplegia, Amputation)	Fatality (Single or multiple)
Environment and Heritage Small, contained localised impact / Low level repairable damage		Short lived, well contained environmental impact / Minor remedial action required Medium term, contained impact / Significant remedial action required		Impacts extend off-site / external ecosystem. Considerable remediation required	Long Term irreversible damage / Long Term Remediation required
Plant Damage Little or No Damage		Damage less than \$15,000	Damage between Damage between \$15,000 and \$50,000 \$50,000 and \$100, 000		Damage greater than \$100, 000
Reputation Brief local negative media coverage.		Local negative media coverage. Site or project problem.	Regional/short negative media coverage. Loss of Client / project.	Sustained national negative media coverage. Loss of long term key client.	International negative media coverage. Loss of business from key sector.
Time Delay / Business interruption <1% of program days		Delay / Business interruption between 1%- 3% of program days	Delay / Business interruption between 4%- 6% of program days	Delay / Business interruption between 7%- 10% of program days	Delay / Business interruption >10% of program days
Cost	Additional cost to the business / project <1% revenue	Additional cost to the business / project between 1%-3% revenue	Additional cost to the business / project between 4%-6% of revenue	Additional cost to the business / project between 7%-10% of revenue	Additional cost to the business / project >10% of revenue

Table 3: Risk severity

	Consequence	Negligible	Minor	Moderate	Major	Substantial
Likelihood	Rating	1	2	3	4	5
Almost Certain	5	5 (Low)	10 (Moderate)	18 (Very High)	23 (Extreme)	25 (Extreme)
Likely	4	4 (Low)	9 (Moderate)	17 (Very High)	20 (Very High)	24 (Extreme)
Possible	3	3 (Low)	8 (Moderate)	13 (High)	19 (Very High)	22 (Very High)
Unlikely	2	2 (Low)	7 (Low)	12 (High)	15 (High)	21 (Very High)
Rare	1	1 (Low)	6 (Low)	11 (Moderate)	14 (High)	16 (High)

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Table 4: Aspect and impact register

Issue	Construction activity/aspect	Potential impact	Risk level prior to mitigation	Indicative Mitigation Measures	Risk level following mitigation	Management Documents / Training Required
		Complaints from neighbours, including loss of amenity, dust in living areas, swimming pools	Likelihood – 5 Consequence – 2 Risk – 10 (Moderate)	 Induct personnel on air quality issues and safeguards Use water carts on unsealed surfaces and stockpiles Utilise safe dust suppressants to reduce dust generation Use street sweepers to reduce dust in areas of dust build up 	Likelihood – 3 Consequence – 1 Risk – 3 (Low)	
Air quality	 General earthworks Vegetation clearing Open excavation works Spoil handling Stockpiling Vehicular movements on unsealed roads Material haulage Vehicle emissions 	Potential adverse health effects Degradation of water quality and other aspects of the natural environment	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	 Modify or cease operations during high winds All trucks on public roads to cover loads Vehicles, equipment, machinery used and all facilities – designed, operated and maintained to control the emission of smoke, dust, odours and fumes All disturbed areas stabilised, revegetated and/or landscaped as soon as practicable Minimise tracked mud/dust on public roads No burning or incineration of any material at any time Dust monitoring Avoid "hot-work" during total fire bans and obtain any necessary 	Likelihood – 2 Consequence – 2 Risk – 7 (Low) Likelihood – 2 Consequence – 2 Risk – 7 (Low)	Air Quality Management Sub Plan (AQMP) Environmental Work Method Statements (EWMS) Soil and Water Management Sub Plan (SWMP) Complaints Procedure Project induction
	Handling of chemicals, waste and hazardous goods.	Health risks to neighbours and members of the public from release of gases and/or smoke	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	 Avoid histwork during total life balls and obtain any necessary permits/exemptions from the Rural Fire Service WorkCover licensing requirements will be complied with for the storage of hazardous substances and dangerous goods Appropriately stocked spill kits will be readily available at all chemical storage locations and during chemical use Material Safety Data Sheets (MSDSs) will be obtained, complied with and retained on site for all required chemicals Pesticide use will be in accordance with the Pesticides Act, 1999 	Likelihood – 1 Consequence – 2 Risk – 6 (Low)	
	Clearing of native vegetation.	Loss of habitat for threatened species beyond minimum clearing footprint.	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	 Induct personnel on biodiversity issues and mitigation measures. Verify vegetation clearing boundaries prior to clearing Ensure vegetation clearing boundaries clearly marked and visible as per FFMP Consult with affected communities prior to removing large trees 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
	 Tree removal Stockpile / haul road construction near vegetation. General earthworks near vegetation. Vehicular movements. Open excavation works. Bushfires 	Stockpile / haul road construction near vegetation. Weed infestation Weed infestation Weed infestation Likelihood – 5 Consequence – 2 Risk – 10 (Moderative getation) Potential longer term impacts associated with increased habitat fragmentation.		 Prior to construction – identify and fence all flora and fauna habitat areas required to be protected as identified in the FFMP. Minimise clearing of all vegetation and undertake progressive revegetation. Pre-clearing inspections by Project Ecologist to review weeds and other threatened species 	(FFMP) EWMS Vegetation Clearing pro	,
Biodiversity			Consequence – 2	 Implement ongoing weed monitoring and management programs. Disturbed areas will be monitored for effective soil stabilisation and restoration / rehabilitation. Implement a staged clearing process and undertake fauna rescue during clearing as required. 		Vegetation Clearing procedure Fauna handling procedure
		Direct impact to flora or fauna during construction.	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	 Project Arborist to provide advice on habitat tree health and provide ongoing advice. Undertake threatened species management as required under the FFMP and detailed design documentation / Approval. Undertake monitoring as required. Spark arresters on plant prevent fires. Obtain permits from Fire authorities during high risk fire season. 	Likelihood – 1 Consequence – 2 Risk – 6 (Low)	

Issue	Construction activity/aspect	Potential impact	Risk level prior to mitigation	Indicative Mitigation Measures	Risk level following mitigation	Management Documents / Training Required
Aboriginal heritage	 Initial clearing and/or grubbing of vegetation. Initial removal of topsoil. Construction of site compounds and material or equipment stockpile 	Indirect impact to flora or fauna during construction Impact to undiscovered or undocumented heritage sites Finding / disturbing burials or human remains	Likelihood – 5 Consequence – 2 Risk – 10 (Moderate) Likelihood – 2 Consequence – 3 Risk – 12 (High) Likelihood – 2	 Undertake noise and vibration monitoring to ensure compliance with predicted noise levels for sensitive areas Direct lighting away from sensitive areas, including National Parks or other reserves Use shrouding of lights where impacts to sensitive areas may occur. Induct personnel on heritage issues and mitigation measures. For ancillary sites, identify and assess Aboriginal heritage items and predict potential impacts. Implement unexpected find procedures as required. 	Likelihood – 1 Consequence – 2 Risk – 6 (Low) Likelihood – 1 Consequence – 2 Risk – 6 (Low) Likelihood – 1	Flora and Fauna Management Plan (FFMP) Noise and Vibration Management Plan (NVMP) EWMS Sensitive Area Plans (SAP) Fauna handling procedure Project induction Heritage Management Sub Plan (HMP) Unexpected Heritage Items Procedure
	areas.Temporary access roads		Consequence – 2 Risk – 7 (Low)	implement unexpected find procedures as required.	Consequence – 2 Risk – 6 (Low)	Project induction
	 Initial clearing and/or grubbing of vegetation. Initial removal of topsoil. 	Impact to identified heritage items.	Likelihood – 3 Consequence – 3 Risk – 13 (High)		Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
Non- Aboriginal	 Construction of site compounds and spoil / mulch and / or equipment stockpile areas. Temporary access roads 	compounds and spoil / mulch and / or equipment stockpile areas. Temporary access roads during construction Excavations and earthworks. Pile driving causing Vibration damage during the construction period to identified sites. Impact to undiscovered or undocumented heritage sites.	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	 Pre-construction surveys to identify and assess non- Aboriginal heritage items. Induct personnel on heritage issues and safeguards. Protect identified heritage items with protective fencing or flagging from being disturbed during construction. 	Likelihood – 2 Consequence – 2	Heritage Management Sub Plan (HMP) Noise and Vibration Management Sub Plan (NVMP) Unexpected Heritage Items Procedure Project induction
heritage	Excavations and earthworks.Pile driving causing		Likelihood – 3 Consequence – 3 Risk – 13 (High)	 Undertake archival recording as required Implement unexpected find procedures Landholder consultation. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
	vibration. • Use of other vibratory equipment such as rollers.	Change in visual integrity of heritage sites.	Likelihood – 2 Consequence – 2 Risk – 7 (Low)		Likelihood – 2 Consequence – 1 Risk – 2 (Low)	
Noise and vibration	 Regular out of hour works (OOHW) Potentially noisy and vibration impact generating works: Site establishment. Earthworks Piling Paving 	Noise impacts on sensitive receivers during construction.	Likelihood – 5 Consequence – 3 Risk – 18 (Very High)	 Consult with local communities and affected residents. Liaison AA and permits detailing justification for OOHW Construction Noise and Vibration Impact Statements (CNVIS) to be prepared to determine impact and consultation requirements Adherence to working hours in NVMP unless otherwise approved. Respite periods for particularly noisy/ short duration activities (in accordance with NVMP) or offers of respite as documented in CNVIS. Construction equipment selected, operated and maintained to minimise noise impacts and where necessary fitted with non-tonal reversing alarms. Minimise impacts from saw cutting/ use effective shielding. Regular noise monitoring to monitor predicted verses actual levels. 	Likelihood – 4 Consequence – 2 Risk – 9 (Moderate)	NVMP EWMS OOHW protocol Negotiated agreements Complaints procedure Project induction
	Saw cutting	Vibration impacts on nearby receptors, including heritage.	Likelihood – 4 Consequence – 2 Risk – 9 (Moderate)	 Implementing management measures where regenerated noise is found to be excessive and agreements are not in place. Managing construction vehicle routes and speed of vehicles. Modelling vibration impacts and monitoring where impacts are predicted. 	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	

			 Establish and maintain complaints management system. Building condition reports on potentially impacted buildings and 		
			 structures as required by Project approval. review monitoring results and implement corrective actions as appropriate, such as for example revising mitigation measures, revising predictions. Implement any additional feasible and reasonable mitigation measures, identified from the review of monitoring results, for minimising noise and vibration impacts Discuss noise and vibration monitoring results at each ERG. Appropriately designed erosion control structures (e.g. rock checks, and impacts) with the installed. 		
Clearing and grubbing. Earthworks and stockpile management.	Erosion and movement of soils.	Likelihood – 5 Consequence – 3 Risk – 18 (Very High)	 sedimentation basins, silt fences and sand bags) will be installed, maintained and cleaned regularly. Locate spoil stockpiles, plant and equipment away from drainage lines, watercourses or stormwater drains in accordance with established criteria. Install clean water diversions to ensure clean and dirty water are not mixed on site. 	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	
Storage of fuels and chemicals Maintenance of plant and equipment, including servicing and refuelling Sediment basin management Drainage works Concrete works	Captured dirty water discharge from basins.	Likelihood – 4 Consequence – 3 Risk – 17 (Very High)	 Storage, compound access and parking areas sealed, as early during works as practicable. Chemical storage meets bunding requirements. Wheel mud reduction/ cleaning measures at exit of all sites where required. Buffer zones of vegetation will be maintained adjacent to waterways for as long as practical. Rehabilitation and landscaping works of disturbed areas undertaken as soon as the works are completed and/or progressively where 	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	SWMP EWMS Basin management procedure Project induction Targeted ERSED training
Temp access road construction Bridge construction. Landscaping Landscaping maintenance	Dirty water not captured and leaves site without controls. Haul road washout from flood	Likelihood – 4 Consequence – 3 Risk – 17 (Very High) Likelihood – 3	 Implement concrete washout process within bunded areas. Provide and maintain spill kits. Establish clean water catch drains/ diversion early in Project before topsoil stripping. Design drainage to maximise dirty water to sediment basins. Establish dedicated ERSED crews for the Project. Install signage at discharge points to assist workers to understand implications of dirty water release in sensitive areas. 	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2	raigeted Erroll anning
Transverse drainage. Haul roads and Freeway.	event. Restriction to flow paths causing localised flooding. Changes to flood levels – increased impact to receivers. Stormwater inflow to site –	Consequence – 2 Risk – 8 (Moderate) Likelihood – 4 Consequence – 3 Risk – 17 (Very High) Likelihood – 3 Consequence – 4 Risk – 19 (Very High) Likelihood – 5	 Meet TfNSW Dewatering guidelines. Design drainage structures to cope with design flood events and Environmental Assessment commitments. Locate compounds / plant / storage above 1 in 20 years flood level events. Design and build temporary crossings to be stabilised and minimise scour / erosion during flood events. Install scour protection as early as possible. 	Risk - 7 (Low) Likelihood - 3 Consequence - 2 Risk - 8 (Moderate) Likelihood - 2 Consequence - 2 Risk - 7 (Low) Likelihood - 3	SWMP EWMS
La Tr	andscaping maintenance	Haul road washout from flood event. Restriction to flow paths causing localised flooding. Changes to flood levels — increased impact to receivers.	leaves site without controls. Consequence - 3	leaves site without controls. Consequence - 3	Likelihood – 3 Restriction to flow paths causing localised flooding. Restriction to flow paths causing localised flooding. Changes to flood levels – increased impact to receivers. ansverse drainage. aul roads and Freeway. Likelihood – 3 Consequence – 4 Risk – 17 (Very High) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 7 (Low) Likelihood – 3 Consequence – 3 Risk – 17 (Very High) Changes to flood levels – increased impact to receivers. Consequence – 4 Risk – 19 (Very High) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Likelihood – 3 Consequence – 2 Risk – 10 (Li

Issue	Construction activity/aspect	Potential impact	Risk level prior to mitigation	Indicative Mitigation Measures	Risk level following mitigation	Management Documents / Training Required
		Flood damage to plant / equipment / satellite compounds. Erosion of haul/ access road during large flood events.	Likelihood – 3 Consequence – 3 Risk – 13 (High) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)		Likelihood – 2 Consequence – 2 Risk – 7 (Low) Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
Spoil and Fill	 Cuts Fill areas Haulage of spoil and fill Stockpiling Spoil areas Site establishment utility Service relocations Earthworks 	Demand on local resources – local quarries / suppliers. ERSED issues from cuts / batters / stockpiles. Sensitive area damage from stockpiling.	Likelihood – 4 Consequence – 1 Risk – 4 (Low) Likelihood – 4 Consequence – 2 Risk – 9 (Moderate) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 3	 Design for balanced earthworks. Offsite spoil movements to be monitored and tracked on the site waste disposal register to ensure spoil movements meet EPA guidelines, including characterisation of the spoil to determine correct disposal locations and volumes. Spoil to be beneficially reused, on or off site, where applicable and meeting environmental requirements. Includes reuse of excavated material, either as fill, or as earth mounds for noise control, or beautification, shielding or revegetation mounds on site. All loads accessing public roads to be covered to prevent any loss of material, which may cause driver safety issues. Only locate stockpiles in accordance with criteria in CEMP/SWMP 	Likelihood – 3 Consequence – 1 Risk – 3 (Low) Likelihood – 3 Consequence – 2 Risk – 8 (Moderate) Likelihood – 2 Consequence – 2 Risk – 7 (Low) Likelihood – 2	SWMP EWMS and Work Packs AQMP CEMP Contaminated Land Management Procedure
	Drainage works	Excessive waste being	Consequence – 3 Risk – 13 (High)	Classify and dispose of any contaminated land in accordance with EPA guidelines. Apply waste hierarchy principles – avoid-reduce-reuse-recycle.	Consequence – 2 Risk – 7 (Low)	
		directed to landfill.	Likelihood – 3 Consequence – 1 Risk – 3 (Low)	 Waste materials contained in waste bins or other suitable containers, and collected for recycling, reuse or disposal by the licensed waste contractor. Separate, contain, manage and dispose contaminated waste to prevent migration and further contamination whilst maintaining compliance with EPA requirements. 	Likelihood – 2 Consequence – 1 Risk – 2 (Low)	
Waste Management	 Generation of waste during construction activities including building materials, excess unsuitable spoil material, vegetation material. 	Incorrect disposal of contaminated waste.	Likelihood – 3 Consequence – 4 Risk – 19 Very High	 Label and store all liquid waste containers in a bunded area prior to removal off-site. Undertake inspections of the worksite and waste storage areas to ensure litter / debris is regularly cleaned up and contained on site. Establish recycling system early on in Project. Establish good segregation areas for concrete and waste concrete is not to be transported off site for land disposal. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	Waste and Energy Management Plan (WEMP) EWMS Waste register
		Meeting POEO Act requirements for VENM, ENM, Recovered Aggregate, Reclaimed Asphalt pavement and mulch	Likelihood – 3 Consequence – 3 Risk – 13 (High)	 Section 143 Notices Under the POEO Act and provision of a letter to landholder highlighting the need for a "s.143 Notice", the Contractor's role and the respective roles of the TfNSW and the landholder in ensuring that the waste is appropriately managed. Consider types of waste, how each waste type will be used as a beneficial use and address in the approvals that no other type of waste will be used. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
Traffic and transport	 Haulage of material. Import of material / plant / equipment. Travel to / from site. Loss of street parking 	Accidents - Safety of commuters, pedestrians, cyclists, contractors and subcontractors. Delays Noise Vibrations and Dust nuisance to residents on haul routes Unapproved use of local roads	Likelihood – 4 Consequence – 4 Risk – 20 (Very High)	 Develop and update Traffic Control Plans for all stages of work. Identify and assess roads likely to be affected by Project construction and develop methods to minimise traffic increases. Undertake before and after dilapidation surveys on local roads Traffic controllers and / or signage for both egress and ingress off the work sites. All vehicles carrying materials to be adequately covered to prevent any loss of material, which may cause driver safety issues. Toolbox workforce on approved access routes 	Likelihood – 3 Consequence – 3 Risk – 13 (High)	Traffic Management Plan (TMP) EWMS AQMP WEMP Project induction Toolbox talks

Issue	Construction activity/aspect	Potential impact	Risk level prior to mitigation	Indicative Mitigation Measures	Risk level following mitigation	Management Documents / Training Required
				Consult with affected communities prior to removing spaces for street parking		
	Cuttings and cut finishes.	General public aesthetic impacts	Likelihood – 3 Consequence – 1 Risk – 3 (Low)	 Landscape and rehabilitation plan including extensive seeding planting in required areas will be developed and implemented. Landscape treatments will incorporate the surrounding landscape types and vegetation patterns and address view scapes. 	Likelihood – 2 Consequence – 1 Risk – 2 (Low)	
Visual Impact, Landscaping and Rehabilitation	 Bridge design Revegetation / landscaping. Removal of visually prominent native vegetation. Evening / night works. 	Heritage related visual	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	 Embankments and cuttings will be stabilised by the use of appropriate landscape treatments. The use of night-lighting will be minimised where possible during the construction phase and directed away from residential areas. Site compounds and areas surrounding them will be kept tidy and be regularly cleaned and maintained. Undertake landscaping and revegetation works in accordance with the approved Urban Design and Landscape Management Plan. 	Likelihood – 1 Consequence – 2 Risk – 6 (Low)	Urban Design and Landscape Management Plan (UDLMP) FFMP
Contamination	Discovery of contaminated soils/ asbestos Management of known contamination	Contamination of land and /or waterways from spills/ asbestos/ land contamination.	Likelihood – 4 Consequence – 3 Risk – 17 (Very High)	 Implement unexpected finds contamination management measures Undertake Detailed Site Investigations to determine location and extent of contamination 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	Contaminated Land Management Procedure EPA guidelines
		Poor environmental culture leading to peer environment outcomes. Non-compliance with CEMP, EPL, MCoA and legislative requirements.	Likelihood – 4 Consequence – 2 Risk – 9 (Moderate)	 Ensure all environmental personnel are trained in the CEMP and all associated documents. Environment team diligence in including requirements from CEMP and procedures into EWMS and training. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
General	Environmental	Failure to follow requirements of strategies / procedures. Failure to report environmental issues and	Likelihood – 4 Consequence – 2 Risk – 9 (Moderate) Likelihood – 4 Consequence – 2	 Regular review of environmental management documents. Regular environment team and ERG meetings. Environmental Manager to be involved in design and construction meetings. Training in environmental emergency response. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low) Likelihood – 2 Consequence – 2	CEMP Procedures (in CEMP and subplans) TfNSW Incident Management procedures
Environmental Management	management / supervisionIncident response	Inconsistent advice to construction personnel.	Risk - 9 (Moderate) Likelihood - 4 Consequence - 2 Risk - 9 (Moderate)	 Ensure NCR process is followed. Early consultation with regards to proposed upcoming works and approvals to be sought. Implementation of high operating standards & in accordance with accepted industry standards. 	Risk – 7 (Low) Likelihood – 2 Consequence – 2 Risk – 7 (Low)	EWMS Compliance Tracking Program Internal / external audits ERG
		Inadequate preparation for environmental incident/ emergency	Likelihood – 4 Consequence – 2 Risk – 9 (Moderate	 Develop and implement environmental incident response procedures. Ensure appropriate incident response equipment available at all construction sites. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	PIRMP
		Inadequate response to environmental incident/ emergency.	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	 Ensure adequate access to / from construction sites for environmental incident response (including potential bushfire response). 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	
	Approvals/ Legislative Compliance	Lost opportunities to implement innovations leading to better environmental outcomes	Likelihood – 4 Consequence – 2 Risk – 9 (Moderate)	 Early consultation in preparing approvals and CEMP. Ensure all environmental personnel are trained in the CEMP and all associated documents. 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	СЕМР
Planning Approvals		Poor working relationships with regulators	Likelihood – 3 Consequence – 2 Risk – 8 (Moderate)	 Environment team diligence in including requirements from CEMP and procedures into EWMS and training. Regular review of environmental management documents. Regular review of compliance with environmental management 	Likelihood – 2 Consequence – 2 Risk – 7 (Low)	Compliance Tracking Program Internal / external audits ERG
		Delays due to receipt of approvals (e.g. CEMP, Planning Modifications,	Likelihood – 4 Consequence – 2	documents, MCoA etc.Regular environment team and ERG meetings.	Likelihood – 1 Consequence – 2	

Issue	Construction activity/aspect	Potential impact	Risk level prior to mitigation	Indicative Mitigation Measures	Risk level following mitigation	Management Documents / Training Required
		Environment Assessments for Ancillary Facilities)	Risk – 9 (Moderate)	 Early consultation with regards to proposed upcoming works and approvals to be sought. 	Risk – 6 (Low)	





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Department of Planning, Housing & Infrastructure



Simon Cooper Project Director – Western Harbour Tunnel Transport for NSW 20-44 Ennis Road Milsons Point, NSW 2061

24/10/2024

Western Harbour Tunnel & Warringah Freeway Upgrade (SSI-8863) Staging Report Rev 10 (Condition A10)

Dear Mr Cooper

I refer to the Staging Report Revision 10, dated 27 September 2024 submitted to the Department for information in accordance with condition A10 of SSI-8863.

I note that the Staging Report Revision 10 has been:

- updated to include details on non-contestable, project related utility works at Emu Plains;
- endorsed by the Environmental Representative; and
- reviewed by Transport for NSW (TfNSW) and no issues were raised.

You are reminded that TfNSW is responsible for coordinating the various stages of work in a manner that minimises its cumulative impacts that may arise from the proposed staging.

Please note that if there are any inconsistencies between the Staging Report and the conditions of approval, then the requirements of the conditions of approval will prevail.

Please ensure that the Staging Report is placed on the project website at the earliest convenience as per condition B15.

If you wish to discuss the matter further, please contact Edward Kenney at edward.kenney@dpie.nsw.gov.au.

Yours sincerely

Yours sincerely

Shelley Reed Team Leader

Infrastructure Management