

West Stage 2 – Phasing Report

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1.1	December 2022	Final	Revised to address DPE review comments	Environmental Coordinator, Metro West	SM Director of Planning, Environment & Sustainability, Metro West
1.2	January 2023	Final	Revised to address construction requirements	Manager Environment, Metro West	SM Director of Planning, Environment & Sustainability, Metro West

Author: Valerie Lebon, Environment Coordinator, Metro West
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1 Definitions and Abbreviations

All terminology in this report is taken to mean the generally accepted or dictionary definition, except where defined in any applicable planning approvals. Relevant acronyms, abbreviations and terms used throughout this report are explained in Table 1.

Table 1: Acronym, Abbreviation and Term Explanations

Acronym term/ term	Term
AA	Acoustic Advisor
CEMF	Construction Environmental Management Framework
CEMP	Construction Environmental Management Plan
CICG	Communications Interface Coordination Group
CoA	Conditions of Approval
Construction	As per the definition provided in the Planning Approval (SSI-19238057)
CSSI	Critical State Significant Infrastructure
CTMP	Construction Traffic Management Plan
CTP	Central Tunnelling Package (Phase B under the SSI-10038 Planning Approval)
DPE	Department of Planning and Environment (NSW)
EIS	Environmental Impact Statement
EP&A Act	Environmental Planning and Assessment Act 1979 (NSW)
ER	(Independent) Environmental Representative
ETP	Eastern Tunnelling Package (Phases G1 and G2 under SSI-19238057 planning approval)
Low Impact Work	As per the definition provided in the Planning Approval (SSI-19238057)
Phase	A component of the delivery strategy for Sydney Metro West that represents the scope of work undertaken by one delivery partner.
PCEMP	Preliminary Construction Environmental Management Plan
REMM	Revised Environmental Mitigation Measure
SM	Sydney Metro
SMW	Sydney Metro West
Stage	A component of the Sydney Metro West planning approval strategy.
TBM	Tunnel Boring Machine
Transport for NSW	Transport for New South Wales
WTP	Western Tunnelling Package (Phase F under the SSI-10038 Planning Approval)

2 Introduction

2.1 Purpose of this Report

This report has been prepared to address the Phasing Report requirements from the Sydney Metro West Stage 2 Planning Approval (SSI-19238057) Conditions of Approval (CoA). Updates to this report will be made to include other phases of Stage 2 following changes to the delivery strategy and any modifications to the planning approval. Where this Phasing Report is amended, it will be provided to the Department of Planning and Environment (DPE) for information.

Table 2 cross-references sections in this report that address each CoA requirement relating to the Phasing Report.

Table 2: Relevant Phasing Report requirements from SSI-19238057

Planning Approval Condition	Requirement	Phasing Report Section
A14	The CSSI may be constructed in phases. Where phased construction is proposed, a Phasing Report must be prepared and submitted to the Planning Secretary for information. The Phasing Report must be submitted to the Planning Secretary for information no later than one (1) month before the commencement of construction of the first of the proposed phases of construction.	This document, but only to the extent of Phase G1
A15	The Phasing Report must: (a) set out how construction of the whole of the CSSI will be phased, including details of work and other activities to be carried out in each phase and the general timing of when construction of each phase will commence and finish; (b) specify the relevant conditions that apply to each phase and how compliance with conditions will be achieved across and between each of the phases of the CSSI; (c) set out mechanisms for managing any cumulative impacts arising from the proposed phasing; and (d) for the purposes of informing Conditions C2, C7 and C18, include an assessment of the predicted level of environmental risk and potential level of community concern posed by the construction activities required to construct each phase of the CSSI. With respect to (d) above, the risk assessment must use an appropriate process consistent with AS/NZS ISO 31000: 2018; Risk Management - Principles and Guidelines and must be endorsed by the ER.	a)Section 3 b)Appendix B and C c)Section 3.4 d)Section 3 ER Endorsement - Appendix D
A16	The CSSI must be phased in accordance with the Phasing Report, as submitted to the Planning Secretary for information.	This document, but only to the extent of Phase G1
A17	Where phasing is proposed, the conditions of this approval that apply or are relevant to the work or activities to be carried out in a specific phase must be complied with at the relevant time for that phase.	Section 3.1

Planning Approval Condition	Requirement	Phasing Report Section
A18	Where changes are proposed to the phasing of construction, a revised Phasing Report must be prepared and submitted to the Planning Secretary for information before the commencement of changes to the phasing of construction.	Appendix B and C
A19	With the approval of the Planning Secretary, the Proponent may submit any strategies, plans or programs required by this approval on a progressive basis within each phase of the CSSI. Notes: 1. While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing activities on site are covered by suitable strategies, plans or programs at all times; and 2. If the submission of any strategy, plan or program is to be submitted on a progressive basis, then the relevant strategy, plan or program must clearly describe the activities to which the strategy, plan or program applies, the relationship of this activity to any future activities within the phase, and the trigger for updating the strategy, plan or program.	Section 3.1
A21	Before establishment of any ancillary facility (excluding exempt or complying development, minor ancillary facilities determined by the ER to have minimal environmental impact and those established under Condition A23, and those considered in an approved CEMP), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the Relevant Council(s) and relevant government agencies. The Site Establishment Management Plan must include: (a) a description of activities to be undertaken during establishment of the ancillary facility (including scheduling and duration of work to be undertaken at the site); (b) figures illustrating the proposed operational site layout and the location of the closest sensitive land user(s); (c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of site establishment work; (d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to: (i) meet the performance outcomes stated in the documents listed in Condition A1, and (ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and (e) a program for monitoring the performance outcomes, including a program for construction noise monitoring, where appropriate or required. Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each ancillary facility. Site Establishment Management Plans must be submitted to the Planning Secretary for approval one (1) month before the establishment of any ancillary facilities	Section 3.2.1

Planning Approval Condition	Requirement	Phasing Report Section
A22	The use of an ancillary facility for construction must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C5 and relevant Construction Monitoring Programs required by Condition C14 have been approved by the Planning Secretary or endorsed by the ER (whichever is applicable). Note: This condition does not apply to Condition A23 or where the use of an ancillary facility is Low Impact Work or for Low Impact Work	Section 3.2.1
C2	With the exception of any CEMPs expressly nominated by the Planning Secretary to be endorsed by the ER, all CEMPs must be submitted to the Planning Secretary for approval.	Section 3.2.1
C3	The CEMP(s) not requiring the Planning Secretary's approval must be submitted to the ER for endorsement no later than one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase. That CEMP must obtain the endorsement of the ER as being consistent with the conditions of this approval and all undertakings made in the documents listed in Condition A1.	Section 3.2.1
C4	Any CEMP to be approved by the Planning Secretary must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Section 3.2.1
C7	With the exception of any CEMP Sub-plans expressly nominated by the Planning Secretary to be endorsed by the ER, all CEMP Sub-plans must be submitted to the Planning Secretary for approval.	Section 3.2.1
C8	The CEMP Sub-plans not requiring the Planning Secretary's approval must obtain the endorsement of the ER as being in accordance with the conditions of approval and all relevant undertakings made in the documents listed in Condition A1. Any of these CEMP Sub-plans must be submitted to the ER with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before construction or where construction is phased no later than one (1) month before the commencement of that phase.	Section 3.2.1
C9	Any of the CEMP Sub-plans to be approved by the Planning Secretary must be submitted to the Planning Secretary with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before construction or where construction is phased no later than one (1) month before the commencement of that phase.	Section 3.2.1

Planning Approval Condition	Requirement	Phasing Report Section
C18	With the exception of any Construction Monitoring Programs expressly nominated by the Planning Secretary to be endorsed by the ER, all Construction Monitoring Programs must be submitted to the Planning Secretary for approval.	Section 3.2.1
C19	The Construction Monitoring Programs not requiring the Planning Secretary's approval must obtain the endorsement of the ER as being in accordance with the conditions of approval and all undertakings made in the documents listed in Condition A1. Any of these Construction Monitoring Programs must be submitted to the ER for endorsement at least one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Section 3.2.1

This Phasing Report has been reviewed and endorsed by the independent Environmental Representative (ER) for Sydney Metro West Stage 2 and meets the requirements of Condition A15 from SSI-19238057. The ER's Letter of Endorsement is attached in Appendix D.

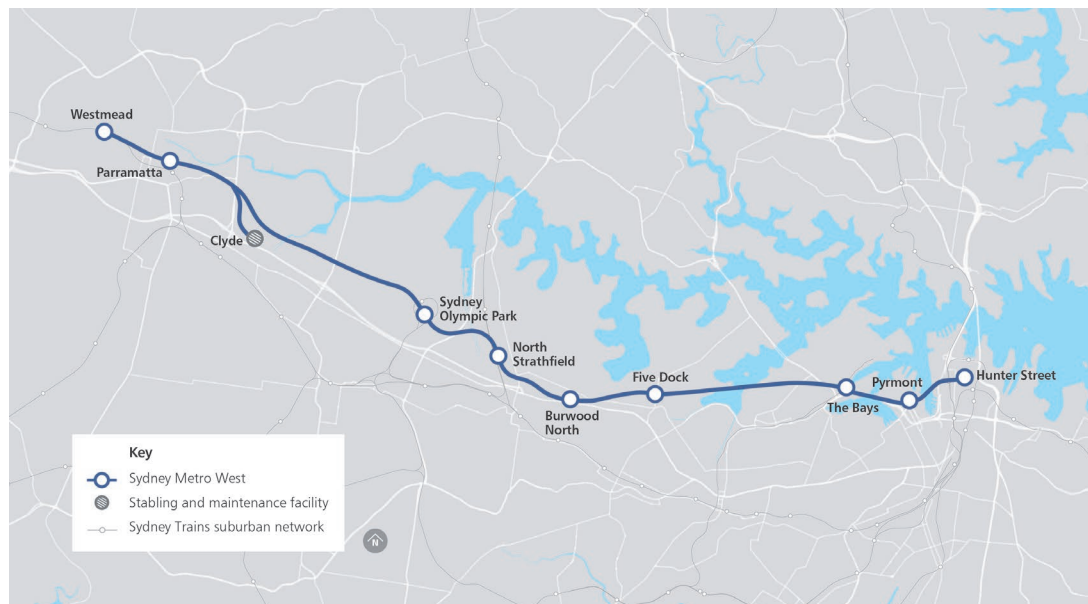
2.2 Background

Sydney Metro West (the Concept) involves the construction and operation of a metro rail line, around 24 kilometres long, between Westmead and Sydney CBD. The key components include:

- Approximately 24 kilometres of twin tunnels between Westmead and Hunter Street
- New metro stations at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pyrmont and Hunter Street
- A turn-up-and-go metro service operating early morning to late at night, between Westmead and Hunter Street
- Pedestrian links and connections to other modes of transport (such as the existing suburban rail network and other parts of the metro network) and surrounding land uses
- Modifications to existing suburban stations and associated rail infrastructure (such as overhead wiring, signalling, access tracks/paths and rail corridor fencing) at Westmead and North Strathfield
- Services within each of the metro stations, including mechanical and fresh air ventilation equipment and electrical power substations to supply power for operation
- A stabling and maintenance facility at Clyde, including associated above-ground and below-ground tracks to connect to the mainline tunnels
- Services facilities at Rosehill (within the Clyde stabling and maintenance facility construction site) for fresh air ventilation and emergency evacuation
- Alterations to pedestrian and traffic arrangements, and cycling and public transport (for example, bus) infrastructure around the metro stations

- Subdivision of station sites to support integrated station and precinct development and ancillary facilities; and
- Ancillary facilities to support construction.

Figure 1 - Sydney Metro West Alignment



2.3 Planning Approval Strategy

Sydney Metro West is being assessed as a staged infrastructure application under section 5.20 of the *Environment Planning and Assessment Act 1979* (EP&A Act).

The Sydney Metro West Concept and major civil construction work for Sydney Metro West between Westmead and The Bays (Stage 1 of the planning approval process for Sydney Metro West), application number SSI-10038, were approved on 11 March 2021. Stage 2 of the planning approval process for Sydney Metro West, application number SSI-19238057, was approved on 24 August 2022.

The Concept includes:

- Construction and operation of new passenger rail infrastructure between Westmead and the central business district of Sydney, including:
 - Tunnels, stations (including surrounding areas) and associated rail facilities
 - Stabling and maintenance facilities (including associated underground and overground connections to tunnels)
- Modification of existing rail infrastructure (including stations and surrounding areas); and
- Ancillary development.

Major civil construction work for Sydney Metro West between Westmead and Hunter Street includes:

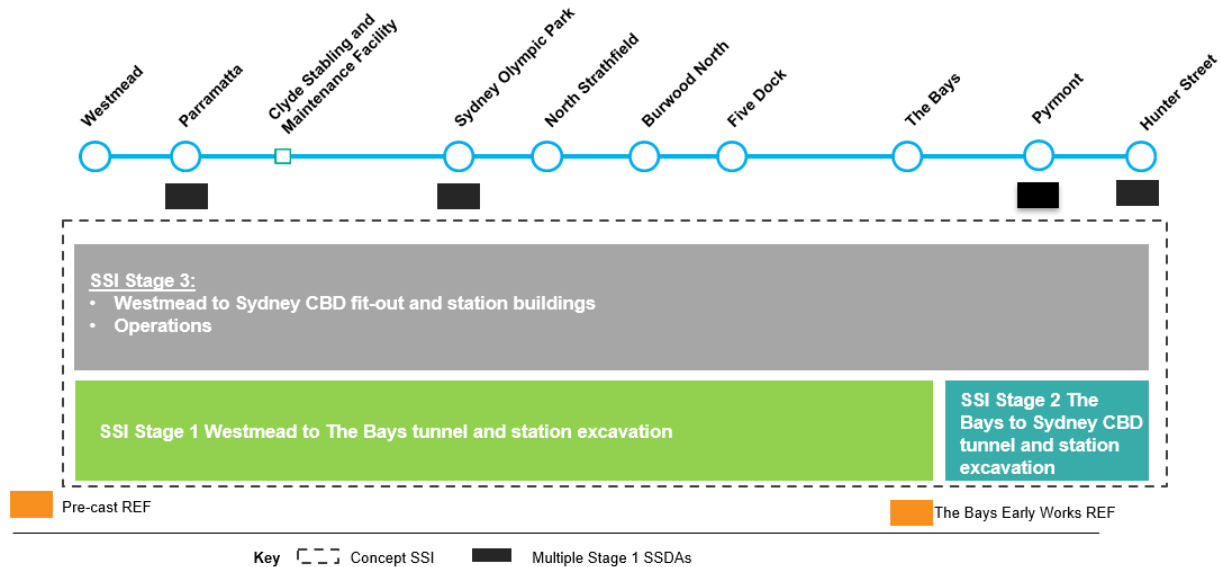
- Tunnel excavation including tunnel support activities between:
 - Westmead and Sydney Olympic Park (Western Tunnelling Package (WTP))
 - Sydney Olympic Park and The Bays (Central Tunnelling Package (CTP)),

- The Bays and Hunter Street, Sydney CBD (Eastern Tunnelling Package (ETP)).
- Station excavation for new metro stations at Westmead, Parramatta, Sydney Olympic Park, North Strathfield, Burwood North, Five Dock, The Bays, Pymont and Hunter Street
- Shaft excavation for services facilities; and
- Civil work for the stabling and maintenance facility at Clyde.

Stage 3 of the Sydney Metro West planning approval process includes tunnel fit-out, construction of stations, ancillary facilities and station precincts, and operation and maintenance of Sydney Metro West between Westmead and Sydney CBD. Stage 3 is planned to commence in 2024 and would continue through to the beginning of 2030.

This Phasing Report relates to Stage 2 of the planning approval process.

Figure 2 - Sydney Metro West Planning Approval Strategy



2.3.1 Stage 2 of Sydney Metro West Scope

The Sydney Metro West Concept and major civil construction work for Sydney Metro West – The Bays to Sydney CBD (Stage 2 of the planning approval process for Sydney Metro West), application number SSI-19238057, was approved on 24 August 2022. This includes:

- Enabling works such as demolition, utility supply to construction sites, utility adjustments and modifications to the existing transport network
- Tunnel excavation including tunnel support activities between The Bays and Hunter Street Sydney CBD
- Station excavation for new metro stations at Pymont and Hunter Street Sydney CBD.

3 Phases

3.1 Overview

Sydney Metro West will be delivered by multiple delivery partners (Principal Contractors) and under multiple planning approvals. This delivery strategy outlines how Sydney Metro will engage with the market to deliver the project in consideration of sequencing, timing and duration, geographic presence, funding, risk, construction methodology and market-related constraints.

Each delivery partner and Sydney Metro are responsible for complying with relevant requirements of any planning approvals that apply to the project and an allocation of responsibilities is defined in contracts between Sydney Metro and delivery partners.

On this basis, Sydney Metro West's phases are based upon the individual contracts that comprise the delivery strategy and this report is the first Phasing Report prepared Stage 2 of the planning approval process for Sydney Metro West.

This version (version 1.0) of the Phasing Report addresses the requirements of the planning approval for Phase G1 and G2 and provides detailed information on the extent to which requirements apply to these Phases.

Table 3 shows the project wide summary of both the delivery strategy and the planning approval strategy.

Table 3 – Overall planning approval and delivery strategy for Sydney Metro West

Planning Approvals	Phased Delivery	Construction Commencement Date	Anticipated Completion Date
Stage 1 of the planning approval process – SSI-10038	Phase A - Power Enabling Works	July 2021	November 2022
	Phase B1 - Central Tunnelling Civil Works	January 2022	March 2025
	Phase B2 - Central Tunnelling (TBM) Works	November 2022	March 2025
	Phase C1 – Parramatta, Westmead and Clyde Demolition Works	December 2021	October 2022
	Phase C2 – Parramatta and Clyde Archaeological Works	March 2022	October 2022
	Phase D – Greater Sydney Road Works	This Phase has been removed	
	Phase E – Existing Rail Corridor Enabling Works	June 2021	April 2023
	Phase F - Western Tunnelling	July 2022	November 2025
Stage 2 of the planning approval process – SSI-19238057	Phase G1 - Preliminary Works	February 2023	May 2023
	Phase G2 - Eastern Tunnelling Works	May 2023	September 2025
Stage 3 of the planning approval process – TBA	To be detailed in the Phasing Report for Stage 3 of the planning approval process for Sydney Metro West		

Where the Phasing Report is updated, new versions will be provided to the ER for endorsement and resubmitted to the Department of Planning and Environment for information.

3.2 Management System Risk Assessments

Each phase in the delivery strategy for Sydney Metro West is considered with respect to which requirements from the Planning Approval and subsequent modifications and the *Sydney Metro West Construction Environmental Management Framework* (CEMF) should apply. The resulting allocations are captured in Table 7, Appendix B and C to this Phasing Report.

With respect to Conditions of Approval that relate to the development of environmental management systems a detailed risk assessment is undertaken in this Phasing Report to demonstrate the appropriateness of management system controls. In Section 3.3 this Phasing Report describes the scope of work to be carried out during each Phase and is followed by a risk assessment to consider to what extent a corresponding management document or monitoring program should apply. This risk assessment is based upon the Sydney Metro Risk Management Standard and is consistent with AS/NZS ISO 31000: 2018; Risk Management - Principles and Guidelines.

While the Stage 2 planning approval documentation has considered environmental and community risks broadly and established mitigation measures which will be complied with during the delivery of Sydney Metro West, this risk assessment specifically focuses upon applying appropriate management system controls and approval processes with respect to the level of risk posed in the absence of any of these controls. During delivery, Principal Contractors will manage environmental risk generally and are required to document this under the Sydney Metro CEMF in their Construction Environmental Management Plan (CEMP). This will further reduce the residual risk.

For example, a Principal Contractor carrying out a phase of Sydney Metro West, whose activities have a high inherent risk in relation to groundwater drawdown, would be required to implement a Groundwater Management Plan to minimise and manage those impacts.

Where there is an unacceptable inherent risk it is controlled by allocating and implementing the respective Conditions of Approval, a requirement of the Sydney Metro CEMF, and/or additional quality assurance processes via an ER endorsement or DPE approval of the documentation prior to the commencement of construction.

To achieve this each area of environmental management covered in the Sydney Metro CEMF is examined with respect to the scope of work in each phase and evaluated against a risk statement. These risk statements examine the likelihood and consequence of delivering each phase in the absence of any management systems leading to an undesirable outcome that contravenes the objectives of the CEMF for each area.

Please refer to Appendix A for the risk assessment matrix and consequence table.

3.2.1 Risk Based DPE Approval Recommendations

Conditions A21, C2, C3, C4, C7, C8, C9, C18, C19 and C20 describe a process by which CEMP, Sub-plans and monitoring programs are endorsed by the ER/ Acoustic Advisor (AA) or approved by DPE. This process relies upon the Department of Planning and Environment nominating deliverables for which they would require their approval.

This Phasing Report proposes that DPE should hold an approval role where the inherent risk in the detailed risk assessments in Section 3.3 resulting in a risk rating

that is High or Very High would have its associated management documentation required under SSI-19238057 approved by DPE.

This mechanism only applies to any document required under SSI-19238057 that is a:

- Site Establishment Management Plan (SEMP)
- Construction Environmental Management Plan (CEMP)
- Sub-plan to the CEMP; or
- Construction Monitoring Program.

3.3 Construction Phases

3.3.1 Phase G1 – Preliminary Works

To facilitate and expedite the excavation of the tunnels and station boxes Phase G1 preliminary works will be undertaken at Hunter Street and Pyrmont. No preliminary works are required to be undertaken at The Bays.

The Phase G1 activities planned for Hunter Street and Pyrmont are:

- Detailed Site, Design and utility investigations
- Survey control, instrumentation and monitoring through the installation of extensometers and piezometers (outside of standard construction hours)
- Borehole drilling for geotechnical investigations, instrumentation and monitoring; and
- Installation of surface settlement monitoring pins.

Phase G1 Preliminary works at Pyrmont are:

- Utility works, including relocations, removal of poles, replacement of streetlights, and adjustment of property connections on Paternoster Row (indicative night works: five shifts)
- Site Establishment works including Hazmat surveys, soft strip demolition and archaeological investigations; and
- The decommissioning of an existing electricity kiosk with sub-activities of trenching, aerials removal and property transfers (indicative night works: 15 shifts).

Phase G1 Preliminary works at Hunter Street are the:

- Relocation of street lighting poles to allow site access (indicative night works: 5 shifts)
- Establishment of site access to the Hunter Street West site and the Hunter Street East site
- Preliminary excavation by road-header or excavator within the existing acoustic shed at Hunter Street East (this acoustic shed was approved and constructed under the Sydney Metro City and South-West project SSI-7400 planning approval.

(Works would be up to 24 hours each day and 7 days each week). The following will be excavated:

- Temporary declines
- Ventilation-duct bores
- Ventilation adits; and
- Load-out of excavated spoil.

Some of the works listed above must be completed during night-time out of hour periods due to Road Occupancy Licence conditions and/or utility authority requirements as they do not meet the requirements of Low Noise Impact Work as detailed under Condition D23(b) of the Planning Approval.

Phase G1 construction activities are anticipated to commence in February 2023 with an expected completion date of May 2023.

The tables below provide consideration and assessment of the level of risk for specific risk areas during Phase G1.

Table 5 - Risk Assessment Context for Phase G1 – Preliminary CEMP

Risk Areas	Risk Context
General Environmental Management	The Preliminary Works would be carried out over approximately four months along the project alignment including Hunter Street and Pyrmont in close proximity to commercial businesses including hotels and residences. There would be a range of environmental and community responsibilities managed by the Principal Contractor including the implementation, maintenance, surveillance and improvement of environmental controls. Training regimes and workforce competency in managing environmental impacts would be required to reduce the potential for material harm. The duration of the phase provides some opportunities to iterate and continually improve management systems.
Spoil Management	The volume of spoil to be extracted using a road header under the Hunter Street East Preliminary Works is low; approximately 4,700 m ³ , which is 0.6% of the total spoil volume for the ETP Works (approximately 144m ³ /day). The spoil is limited to VENM as excavation down to rock level has already been completed. All traffic requirements will be managed in accordance with the Construction Traffic Management Plan (CTMP) which is being prepared in consultation with Transport for New South Wales (Transport for NSW). An average of two trucks per hour during standard hours will be used to transport spoil offsite using the approved haulage routes. No out of hours spoil movements are proposed.
Groundwater Management	The Hunter Street East Preliminary Works are not expected to encounter groundwater given the temporary excavation located adjacent to deep existing excavations within and immediately adjacent to the worksite, which have already drawn down the groundwater table.

Risk Areas	Risk Context
Construction Noise and Vibration Management	Potential noise and vibration impacts from local area works at and near Pymont and Hunter Street, include utility investigation and relocation and hoarding installation which will be short term. Most Hunter Street East Preliminary Works will be undertaken within the existing acoustic shed, which has been designed and validated to mitigate noise impacts. In addition, work will extend underground along Bligh Street towards Hunter Street to commence the construction of the decline starting at approximately eight to ten metres below ground level and descending to a depth of approximately 22 metres beneath the ground surface. Modelling has been completed to demonstrate that impacts on sensitive receivers are within the relevant criteria
Heritage Management	No direct impact on listed heritage items (Perpetual Trustee Company, 33–39 Hunter Street (SHR00678); City Mutual Life Assurance Building, 10 Bligh Street (SHR 00585); NSW Club House building, 31 Bligh Street (SHR 00145)) is predicted in the DNVIS as a result of the Hunter Street East Preliminary Works. The existing excavation is down to rock level there is no potential archaeological impacts. The Bennelong Sewer (Heritage structure) is located in proximity to the site with its exact location to be identified using investigative surveying and mapped and pre-inspected using CCTV prior to any work commencing in proximity to this structure. Unexpected archaeological finds are a possibility during utility/design investigation along the project alignment.
Flora and Fauna Management	The majority of street trees adjacent to the Pymont and Hunter Street worksites are planned for removal. Trees will be retained wherever practicable and will require protection during utility work to avoid unnecessary clearance or harm. The Hunter Street East Preliminary Works will be managed from within an established construction worksite.
Visual Amenity Management	Potential visual impacts from local area works including utility investigation and relocation and hoarding installation will be short term. There will be no discernible change to visual amenity during the Preliminary Works. The Hunter Street East Preliminary Works will be managed from an established construction worksite within an existing acoustic shed.
Soil and Water Management	Local area works including utility investigation and relocation will progressively expose and backfill soil, limiting the risk of water quality impacts. The Hunter Street East Preliminary Works will be managed from an established construction worksite within an existing acoustic shed and the existing stormwater management will be used.
Air Quality Management	The use of plant and equipment could mobilise dust resulting in impacts to sensitive receivers in the absence of controls. However, progressive and short-term work fronts will be managed efficiently with simple controls. The Hunter Street East Preliminary Works will be managed from an established construction worksite within an existing acoustic shed and spoil trucks will be covered.
Waste Management	Waste generated as part of the Preliminary Works will be segregated prior to transportation and disposal.
Community and Business Management	There will be localised noise and vibration, traffic generation and access impacts during the Preliminary Works. These occurrences may lead to complaints being made in relation to Phase G1.

Table 6 – Risk Assessment: Phase G1 Preliminary Works

Risk Areas	Risk Statements	L	C	Inherent Risk Rating	Control	L	C	Residual Risk Rating
General Environmental Management	An absence of controls in relation to general environmental management leads to Material Harm and frequent non-compliance with the Planning Approval.	L3	C5	C - Medium	• Preliminary Construction Environmental Management Plan (PCEMP) • ER Endorsement	L4	C5	D - Low
Spoil Management	An absence of controls in relation to spoil management leads to inappropriate spoil handling, increased traffic, community impacts, and poor spoil reuse outcomes.	L3	C5	C - Medium	• PCEMP • Spoil Management Procedure • CTMP • ER Endorsement	L4	C5	D - Low
Groundwater Management	There is no predicted impact on groundwater due to the location of the excavation being located above the existing C&SW tunnel and shaft.	L4	C5	D - Low	• PCEMP • Groundwater Management Procedure • ER Endorsement	L5	C5	D - Low
Construction Noise and Vibration Management	An absence of controls in relation to noise and vibration management leads to unreasonable impacts on sensitive receivers.	L3	C4	C - Medium	• PCEMP • Noise and Vibration Management Procedures - ER Endorsement • Detailed Noise and Vibration Impact Statement - AA Endorsement • Consultation completed with directly impacted receivers, councils and utility asset owners • Pre-condition surveys	L5	C5	D - Low

Risk Areas	Risk Statements	L	C	Inherent Risk Rating	Control	L	C	Residual Risk Rating
Heritage Management	An absence of controls in relation to heritage management leads to unreasonable impacts to heritage or archaeology	L3	C4	C – Medium	• PCEMP • Heritage Management Procedure - ER Endorsement • Unexpected Heritage Finds Procedure • DNVIS • Detailed survey/ map and pre inspection of known heritage structures using CCTV prior to any work • 'Permit to Tunnel' authorised prior to works • Pre-condition surveys	L5	C4	D - Low
Flora and Fauna Management	An absence of controls in place for local area works impact on flora and fauna.	L5	C5	D - Low	• PCEMP • Flora and Fauna Management Procedure - ER endorsement • Unexpected Flora and Fauna Finds Procedure	L6	C5	D - Low
Visual Amenity Management	There will be no discernible change to visual amenity during the Preliminary Works.	L4	C5	D - Low	• PCEMP • Visual Amenity Management Procedure • ER Endorsement	L4	C5	D - Low
Soil and Water Management	An absence of controls in relation to soil and water management leads to unexpected pollution events and water quality impacts such as mud tracking.	L3	C5	C - Medium	• PCEMP • Soil and Water Management Procedure • ER Endorsement	L4	C5	D - Low

Risk Areas	Risk Statements	L	C	Inherent Risk Rating	Control	L	C	Residual Risk Rating
Air Quality Management	An absence of controls in relation to air quality management leads to unreasonable particulate pollutant emissions from construction activities.	L3	C5	C - Medium	• PCEMP • Air Quality Management Procedure • ER Endorsement	L4	C5	D - Low
Waste Management	An absence of controls in relation to waste management leads to excessive waste generation, and inappropriate waste classification and disposal	L3	C5	C - Medium	• PCEMP • Waste Management and Reuse Procedure • ER Endorsement	L5	C5	D - Low
Community and Business Management	An absence of controls in relation to community management results in community concern and complaints.	L3	C4	C - Medium	• PCEMP • Overarching Community Communications Strategy • Community Communications Strategy • Complaints Management System • Small Business Owners Engagement Plan	L3	C5	C - Medium

3.3.2 Phase G2 – Eastern Tunnelling Works

Phase G2 of SMW Stage 2 involves major civil construction works between Hunter Street and The Bays and comprises the following activities:

- Preliminary works (not completed prior to ER endorsement of the nominated construction environmental management documentation and Planning Secretary approval of the remaining nominated construction environmental

management documentation)

- The erection of acoustic sheds
- Demolition of existing buildings at Pyrmont East and West shaft sites and at Hunter Street East and West shaft sites
- Temporary piling and permanent piling
- Bulk excavation of shafts
- Tunnel Boring Machine (TBM) assembly, launch, tunnelling support from an existing shaft at The Bays
- Approximately 2.5 km twin underground eastbound and westbound bored railway tunnels between The Bays and Hunter Street and six cross passages spaced up to 500 metres apart
- Pyrmont Station excavation, including two shaft excavations, associated access adits and nozzle tunnel enlargements, including temporary ground support and cast in situ linings
- Excavation and lining of a mined crossover cavern at the western end of Pyrmont Station to allow trains to cross from one track to the other
- Hunter Street Station mined cavern excavation, including two shaft excavations, associated access adits, nozzle tunnel enlargements and conversion of an existing temporary connection adit at Bligh Street linking Hunter Street Station to Martin Place Station into a permanent pedestrian connection linking the stations, including temporary ground support and cast in situ linings
- A turnback extension tunnel, of approximately 675 metres, will be constructed east of the Hunter Street Station works to enable Sydney Metro train storage and to change tracks and travel direction - eastbound to westbound
- TBM disassembly and retrieval from Hunter Street East
- Placement of first stage concrete invert in the running tunnels; and
- Decommissioning where elements are not handed over to follow on-contractors.

Eastern Tunnelling Works activities under the Final CEMP are anticipated to be completed in September 2025.

Note: Risk assessment and context tables will be included in a resubmission to the ER for endorsement and the Department of Planning and Environment for information prior to the commencement of Construction for Phase G2 (in compliance with SSI-19238057 Condition A18).

3.4 Cumulative Impacts

Despite numerous major infrastructure projects being undertaken in proximity to each other (SMW Concept Design and Stage 1, SMW Stage 2, WestConnex M4-M5 Link and the Western Harbour Tunnel and Warringah Freeway Upgrade) potential

concurrent and cumulative impacts have been assessed within the relevant Stage 2 Environmental Impact Statement aspect chapters to be minor or negligible.

Prior to the commencement of the SMW Stage 1 scope of works, Sydney Metro established a Communications Interface Coordination Group (CICG) for each site where there is an interface with another Sydney Metro project. The objective of the CICG is to manage any potential cumulative impacts occurring as a result of the construction activities of these various infrastructure projects. The CICG provides a forum to exchange information and coordinate communication and engagement activities between the numerous Principal Contractors and Sydney Metro and would continue for works under Stage 2 of the planning approval process.

The objective of the CICG is to assist in presenting a single Sydney Metro approach and combine engagement activities, newsletters, and notifications where feasible. The CICG meets at least fortnightly throughout the duration of the interfacing activities and construction look ahead schedules, community engagement plans, complaint management, and the coordination of community notifications will be discussed and managed to reduce the impact of our activities on the surrounding environment.

Furthermore, Sydney Metro either embed staff in contractors' teams or work closely with those teams to manage community impacts and develop strong local knowledge of community needs and concerns. Our objective is to provide detailed information about of project and be available to address any concerns they may have and identify issues before they arise.

4 Requirement Allocation

The applicability of the Conditions of Approval and Revised Environmental Mitigation Measures to each Phase outlined in this Phasing Report are tabled in Appendix B and Appendix C respectively. Where a requirement is shown to be applicable this means that Sydney Metro, in collaboration with the relevant delivery partner for that Phase, will comply with that requirement during the delivery of work under that Phase.

In some cases requirements may be partly complied with during one phase and partly complied with in one of more other Phases. These requirements are allocated partially to each Phase involved in meeting the overall Condition of Approval or Revised Environmental Mitigation Measure and the extent of each allocation is also specified in Appendix A and B.

Consistency in environmental management across each stage of the project will be achieved through the implementation of the CEMF. The CEMF formed part of the Sydney Metro West Stage 2 planning approval documents and provides a linking document to CEMPs and Sustainability Management Plans (produced by Principal Contractors).

The CEMF details the environmental, stakeholder and community management systems and processes to be implemented throughout construction of the project. More specifically, it details Sydney Metro's minimum requirements for:

- CEMPs, Sub-plans and associated procedures
- Sustainability Management Plan (SMP)
- Roles, responsibilities and training requirements
- Compliance and assurance processes
- Workforce Development and Industry Participation Plans (WFDIPs); and
- Other supporting documentation for each environmental management category (for example noise and vibration, visual amenity etc.).

4.1 Applicability to Phases

In the same manner that Conditions of Approval and Revised Environmental Mitigation Measures are allocated to Principal Contractors, so are the requirements of the CEMF. Sydney Metro West contractors are required to implement the CEMF to a degree that is appropriate for their scope of work and inherent level of environmental risk shown in Section 3 of this Phasing Report. Importantly, this allocation determines the extent of environmental management documentation that each Principal Contractor is required to develop and implement.

As a minimum, any work which is not Low Impact Works will be carried out under a CEMP that incorporates the allocated requirements of the Conditions of Approval for that Phase (Appendix B) and Section 3.4 of the CEMF.

The applicability of the CEMF to each Phase is based on the scope of work, relevant CoA and Revised Environmental Mitigation Measure (REMM) requirements and the relevant environmental risks assessed in the Sydney Metro West Stage 2 Environmental Impact Statement (EIS). Table 7 summarises this allocation showing the environmental management documentation from the CEMF that applies to the ETP Principal Contractor.

Table 7 - Key deliverables under the CEMF applicable to Phases G1 and G2

Environmental Management Category	Phase G1	Phase G2
Construction Environmental Management Plan	Applicable	Applicable
Spoil Management Sub Plan	Substituted by Procedure**	Applicable
Groundwater Management Sub Plan	Objective Based allocation*	Applicable
Construction Noise & Vibration Management Sub Plan	Substituted by Procedure**	Applicable
Heritage Management Sub Plan	Substituted by Procedure**	Applicable
Flora & Fauna Management Sub Plan	Substituted by Procedure**	Applicable
Visual Amenity Management Sub Plan	Substituted by Procedure**	Applicable
Soil & Water Management Sub Plan	Substituted by Procedure**	Applicable
Air Quality Management Sub Plan	Substituted by Procedure**	Applicable
Waste Management Sub Plan	Substituted by Procedure**	Applicable
Noise and Vibration Monitoring Program	Substituted by Procedure** and the DNVIS	Applicable
Blasting Monitoring Program	Not Applicable	Not Applicable
Surface Water Quality Monitoring Program	Not Applicable	Applicable
Groundwater Monitoring Program	Objective Based allocation*	Applicable

* An objective based allocation means that the objectives for that area of environmental management in the CEMF must be considered in the risk assessment.

**Where a procedure is considered sufficient, then the associated sub plan is substituted by relevant procedure(s).

4.2 Training, Surveillance and Auditing

Through the requirements of the CEMF, Sydney Metro place contractual requirements on Principal Contractors for the implementation of training programs to develop competence in the management of environmental issues, to undertake regular onsite environmental inspections and confirm the adequacy of all environmental mitigation measures, and to conduct internal audits where appropriate. The extent and/or frequency of these activities may vary depending on the scale of the works being undertaken by the Principal Contractor but will be appropriate with respect to any relevant environmental risks.

Further to the Principal Contractors activities, onsite environmental inspections and audits led by the ER and Auditor respectively, are undertaken regularly across all phases of the project and involve key staff from the Principal Contractor and Sydney Metro.

All environmental issues and general compliance with the planning approval requirements is monitored collaboratively between Sydney Metro, independent parties, and the Principal Contractor through environmental management meetings chaired by Sydney Metro for each Phase in this report. These forums are the cornerstone for developing effective working relationships and sharing knowledge and ideas for improvement.

5 Appendix A – Risk Tables

5 Appendix A – Risk Tables

Probability	One off event How likely?	Frequency	Repeated How often?	Likelihood		Consequence					
						Insignificant	Minor	Moderate	Major	Severe	Catastrophic/ Transformational
						C6	C5	C4	C3	C2	C1
	Expected to occur frequently during time of activity or project. Greater than a 90% chance of occurring.		10 times or more every year	Almost certain	L1	Medium	High	High	Very High	Very High	Very High
	Expected to occur occasionally during time of activity or project. A 75-90% chance of occurring.		1-10 times every year	Very Likely	L2	Medium	Medium	High	High	Very High	Very High
	More likely to occur than not occur during time of activity or project A 50-75% chance of occurring.		Once each year	Likely	L3	Low	Medium	Medium	High	High	Very High
	More likely not to occur than occur during time of activity or project. A 25-50% chance of occurring.		Once every 1 to 10 years	Unlikely	L4	Low	Low	Medium	Medium	High	High
	Not expected to occur during the time of activity or project. A 10-25% chance of occurring.		Once every 10 to 100 years	Very Unlikely	L5	Low	Low	Low	Medium	Medium	High
	Not expected to ever occur during time of activity or project. Less than 10% chance of occurring.		Less than once every 100 years	Almost Unprecedented	L6	Low	Low	Low	Low	Medium	Medium

	CONSEQUENCES					
	Insignificant	Minor	Moderate	Major	Severe	Catastrophic
	C6	C5	C4	C3	C2	C1
Environment	No appreciable changes to environment and/or highly localised event.	Change from normal conditions within environmental regulatory limits and environmental effects are within site boundaries.	Short-term and/or well-contained environmental effects. Minor remedial actions probably required.	Impacts external ecosystem and considerable remediation is required.	Long-term environmental impairment in neighbouring or valued ecosystems. Extensive remediation required.	Irreversible large-scale environmental impact with loss of valued ecosystems.
Regulatory or Legal Breach	Low-level non-compliance with legal and/or regulatory requirement or duty by individuals or TfNSW.	Minor non-compliance with legal and/or regulatory requirement or duty. Investigation and/or report to authority.	Moderate non-compliance. Subject to comment and monitoring from applicable regulator. Small fine and no disruption to services.	Systemic non-compliance/Major breach resulting in enforcement action and/or prohibition notices. Substantial fine and no disruption to services.	Substantial breach resulting in prosecution, fines and/or litigation. Licence or accreditation restricted or conditional affecting ability to operate.	Prosecution leading to imprisonment of TfNSW executive. Loss of operating licence.
Customer Experience and Satisfaction	Infrequent or unrelated written complaints.	A stream of written complaints for more than 3 months.	A stream of written complaints for more than a year.	A substantial and sustained uplift in the rate of complaints.	A deluge of complaints for up to 6 months with normal background rates increasing by a factor of 3 or more.	A prolonged deluge of complaints for more than 6 months, with some normal background rates increasing by a factor of 10 or more.

6 Appendix B – Applicability of SMW CoA to each Phase for Stage 2

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	General	C-A1 (SSI 10038)	Approval is granted to the 'Concept' as described in Schedule 1 and in Chapter 6 and in Chapter 7 of the Sydney Metro West – Westmead to The Bays and Sydney CBD Environmental Impact Statement dated 15 April 2020, as amended by the following: (a) Sydney Metro West – Westmead to The Bays and Sydney CBD Amendment Report dated 20 November 2020; and (b) Sydney Metro West – Westmead to The Bays and Sydney CBD Submissions Report dated 20 November 2020.	Applicable
MCoA	General	C-A2 (SSI 10038)	The Proponent must carry out the CSSI Concept in accordance with the conditions of this approval and the documents listed in Condition C-A1 of this schedule unless otherwise specified in, or required under, the conditions of this approval.	Applicable
MCoA	General	C-A3 (SSI 10038)	In the event of an inconsistency between: (a) the conditions of this approval and any document listed in Condition C-A1 of this schedule inclusive, the conditions of this approval will prevail to the extent of the inconsistency; and (b) any document listed in Condition C-A1 of this schedule, the most recent document will prevail to the extent of the inconsistency. Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.	Applicable
MCoA	General	C-A4 (SSI 10038)	Except to the extent described in any document listed in Condition C-A1 of this schedule, any over station development, including any future uses, does not form part of this CSSI and will be subject to the relevant assessment pathway prescribed by the EP&A Act.	Not Applicable
MCoA	Place and Design	C-B1 (SSI 10038)	To ensure that a high-quality urban design response is achieved, the CSSI must have regard to, and be generally consistent with, the place and design principles for each location outlined in the documents listed in Condition C-A1 of this schedule, unless expressly specified in the conditions of this approval.	Applicable
MCoA	Place and Design	C-B2 (SSI 10038)	For the relevant future stage application, the following must be considered at the Clyde Maintenance and Stabling Facility site: (a) publicly-accessible active transport corridors immediately around the site adjoining James Ruse Drive that connects to existing and future links and open spaces; (b) public spaces for recreational use on residual land to offset the loss of the private recreational land, or any alternate and commensurate opportunity that achieves the objective and provides value for money, developed in consultation with City of Parramatta Council; (c) renaturalisation of parts of Duck Creek and A'Becketts Creek and rehabilitation of the riparian corridor; and (d) integration with strategic planning for the precinct.	Not Applicable
MCoA	Place and Design	C-B3 (SSI 10038)	The delivery of the section of the future Parramatta Civic Link located on the Parramatta metro station construction site must be facilitated to enable completion before operation of the CSSI.	Not Applicable
MCoA	Aboriginal and Non-Aboriginal Heritage	C-B4 (SSI 10038)	The relevant future stage application relating to the design of stations must include a Heritage Interpretation Strategy, prepared in consultation with Heritage NSW, which outlines how key Aboriginal and non-Aboriginal heritage values and stories of Heritage items will be interpreted in the project design, including station and precinct urban design. The Heritage Interpretation Strategy must include procedures for how to include results of archaeological findings (historical and Aboriginal archaeological results) when they become available.	Applicable
MCoA	Aboriginal and Non-Aboriginal Heritage	C-B5 (SSI 10038)	The Heritage Interpretation Strategy must be prepared in accordance with the NSW Heritage Manual, the NSW Heritage Office's Interpreting Heritage Places and Items: Guidelines (August 2005), and the NSW Heritage Council's Heritage Interpretation Policy.	Applicable
MCoA	Aboriginal and Non-Aboriginal Heritage	C-B6 (SSI 10038)	The Heritage Interpretation Strategy must include, but not be limited to: (a) a discussion of key interpretive themes, stories and messages proposed to interpret the history and significance of archaeological excavation, the affected Heritage items and sections of heritage conservation areas (if applicable); (b) options for the re-purposing of archaeological finds (results and artefacts), heritage features or listed items salvaged or protected during construction stages of the CSSI, and how they will be integrated into the final project design; (c) Aboriginal cultural and heritage values of the project area including the results of any archaeological investigations undertaken (or any interim results of any archaeological investigations that have commenced but have yet to be completed) and key socio-cultural values identified in the Aboriginal Cultural Heritage Assessment Report referred to in Condition C-A1 of this schedule, and those of any future stages of the CSSI; (d) details of the audience, potential devices to be employed in interpretation, possible locations for interpretation and how this will be incorporated into design; (e) engagement with the Relevant Council(s) and regard for any relevant council heritage interpretation guidelines; and (f) with respect to the Parramatta construction site and (a) above, any discussion must include how the heritage interpretation of the CSSI relates to the heritage interpretations of other projects in Parramatta, including State Significant Development projects and other SSI projects.	Applicable
MCoA	Sustainability	C-B7 (SSI 10038)	The CSSI must achieve a minimum Infrastructure Sustainability Council of Australia (ISCA) Infrastructure Sustainability rating of 75 (Version 1.2) (or equivalent level of performance using a demonstrated equivalent rating tool) or a 5-Star Green Star rating (or equivalent level of performance using a demonstrated equivalent rating tool).	Applicable
MCoA	Biodiversity and Trees	C-B8 (SSI 10038)	As many mature trees as practicable must be retained. In addition, within ten (10) years of the date of this approval or no later than the commencement of operation of the CSSI (whichever is earlier) there must be a net increase in the number of mature trees provided at a ratio of 2:1. A net increase in the number of mature trees does not apply to trees that are subject to a biodiversity offset.	Applicable
MCoA	Biodiversity and Trees	C-B9 (SSI 10038)	The CSSI must result in an increase in tree canopy coverage.	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Biodiversity and Trees	C-B10 (SSI 10038)	Parts of Duck Creek and A'Becketts Creek that remain open channels at the Clyde Stabling and Maintenance Facility site must be rehabilitated and / or renaturalised before operation of the CSSI commences. Only species that are representative of PCT 920 (Mangrove Forests in estuaries of the Sydney Basin Bioregion and South East Corner Bioregion) must be used in the revegetation of the riparian zone along the open channels to Duck Creek and A'Becketts Creek.	Not Applicable
MCoA	Climate Change	C-B11 (SSI 10038)	The CSSI must be designed to withstand known impacts associated with climate change to year 2100.	Applicable
MCoA	General	A1	The Proponent must carry out the CSSI in accordance with the conditions of this approval and generally in accordance with the: (a)Sydney Metro West – Major civil construction between The Bays and Sydney CBD Environmental Impact Statement dated 25 October 2021; (b)Sydney Metro West – Major civil construction between The Bays and Sydney CBD Submissions Report dated April 2022; (c)Sydney Metro West – Archaeological Research Design and Excavation Methodology – Pyrmont Station dated April 2022; and (d)Sydney Metro West – Aboriginal and Historical Archaeological Research Design– Hunter Street Station (Sydney CBD) dated May 2022.	Applicable
MCoA	General	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 otherwise specified in, or required under, this approval.	Applicable
MCoA	General	A3	In the event of an inconsistency between: (a)the conditions of this approval and any document listed in Condition A1 , the conditions of this approval will prevail to the extent of the inconsistency; and (b)any document listed in Condition A1 , the most recent document will prevail to the extent of the inconsistency. <i>Note: For the purpose of this condition, there is an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document</i>	Applicable
MCoA	General	A4	In the event that there are differing interpretations of the conditions of this approval, including in relation to a condition of this approval, the Planning Secretary's interpretation is final.	Applicable
MCoA	General	A5	The Proponent must comply with all written requirements or directions of the Planning Secretary, including in relation to: (a)the environmental performance of the CSSI; (b)any document or correspondence in relation to the CSSI; (c)any notification given to the Planning Secretary under the conditions of this approval; (d)any audit of the CSSI; (e)the conditions of this approval and compliance with the conditions of this approval (including anything required to be done under this approval); (f)the carrying out of any additional monitoring or mitigation measures; and (g)in respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard or policy required to be complied with under the conditions of this approval.	Applicable
MCoA	General	A6	Where the conditions of this approval require a document or monitoring program to be prepared, or a review to be undertaken, in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary with the document. The evidence must include: (a)documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval; (b)a log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them; (c)documentation of the follow-up with the identified party(s) where feedback has not been provided to confirm that the party(s) has none or has failed to provide feedback after repeated requests; (d)outline of the issues raised by the identified party(s) and how they have been addressed; and (e)a description of the outstanding issues raised by the identified party(s) and the reasons why they have not been addressed. <i>Note: *Consultation with the community and businesses will be undertaken in accordance with the Overarching Community Communication Strategy required under Condition B1.</i>	Applicable
MCoA	General	A7	This approval lapses five (5) years after the date on which it is granted, unless work has physically commenced on or before that date.	Applicable
MCoA	General	A8	References in the conditions of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, standards or policies in the form they are in as at the date of this approval, unless otherwise approved by the Planning Secretary.	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	General	A9	The Proponent may update corresponding strategies, plans, procedures, panels, systems, protocols and programs prepared to meet the requirements of CSSI Approvals SSI 10038 and SSI 7400 for the purposes of meeting the requirements of the CSSI consistent with this approval. Where a strategy, plan, procedure, panel, system protocol or program in SSI 10038 and SSI 7400 has been updated and remains consistent with that prepared for SSI 10038 and SSI 7400 and meets the requirements of this approval, the updated version must be submitted to the Planning Secretary for information. Where the update is inconsistent with the prepared documents for SSI 10038 and SSI 7400, the approval for the document must be sought in accordance with the requirements of this approval, if required. <i>Note: Where a strategy, plan, procedure, panel, system protocol or program in SSI 10038 or SSI 7400 has been updated for the purpose of this approval, that update does not affect the strategy, plan, procedure, panel, system protocol or program for the purpose of complying with SSI 10038 or SSI 7400, and the original document/s continues to apply in relation to SSI 10038 and SSI 7400.</i>	Applicable
MCoA	General	A10	Notwithstanding Condition A9, where the following have been approved by the Planning Secretary for the purpose of SSI 10038 and SSI 7400, further approval is not required for the CSSI where the same individual/company/document is nominated: (a)Environmental Representative; (b)Acoustics Advisor; (c)Excavation Director (d)Community Complaints Mediator; (e)Community Communication Strategy; (f)Out-of-Hours Work Protocol; or (g)Independent Property Impact Assessment Panel. The Proponent must notify the Planning Secretary of any such appointment of an individual/company or application of a document consistent with the requirements of the corresponding condition in SSI 10038 and SSI 7400.	Applicable
MCoA	Timing and Approvals	A11	Any document that must be submitted or action taken within a timeframe specified in or under the conditions of this approval may be submitted or undertaken within a later timeframe agreed with the Planning Secretary. This condition does not apply to the written notification required in respect of an incident under Condition A45 .	Applicable
MCoA	Timing and Approvals	A12	Any document or similar that must be prepared under the conditions of this approval, may be prepared, and where applicable submitted, for multiple phases of the CSSI, if agreed by the Planning Secretary	Applicable
MCoA	Timing and Approvals	A13	Without limitation, all strategies, plans, programs, reviews, audits, report recommendations, protocols and the like required by the terms of this approval must be implemented by the Proponent and in accordance with all requirements issued by the Secretary.	Applicable
MCoA	Phasing	A14	The CSSI may be constructed in phases. Where phased construction is proposed, a Phasing Report must be prepared and submitted to the Planning Secretary for information. The Phasing Report must be submitted to the Planning Secretary for information no later than one (1) month before the commencement of construction of the first of the proposed phases of construction.	Applicable
MCoA	Phasing	A15	The Phasing Report must: (a)set out how construction of the whole of the CSSI will be phased, including details of work and other activities to be carried out in each phase and the general timing of when construction of each phase will commence and finish; (b)specify the relevant conditions that apply to each phase and how compliance with conditions will be achieved across and between each of the phases of the CSSI; (c)set out mechanisms for managing any cumulative impacts arising from the proposed phasing; and (d)for the purposes of informing Conditions C2, C7 and C18, include an assessment of the predicted level of environmental risk and potential level of community concern posed by the construction activities required to construct each phase of the CSSI. With respect to (d) above, the risk assessment must use an appropriate process consistent with AS/NZS ISO 31000: 2018; Risk Management - Principles and Guidelines and must be endorsed by the ER.	Applicable
MCoA	Phasing	A16	The CSSI must be phased in accordance with the Phasing Report , as submitted to the Planning Secretary for information.	Applicable
MCoA	Phasing	A17	Where phasing is proposed, the conditions of this approval that apply or are relevant to the work or activities to be carried out in a specific phase must be complied with at the relevant time for that phase.	Applicable
MCoA	Phasing	A18	Where changes are proposed to the phasing of construction, a revised Phasing Report must be prepared and submitted to the Planning Secretary for information before the commencement of changes to the phasing of construction.	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Phasing	A19	With the approval of the Planning Secretary, the Proponent may submit any strategies, plans or programs required by this approval on a progressive basis within each phase of the CSSI. <i>Notes:</i> 1.While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the existing activities on site are covered by suitable strategies, plans or programs at all times; and 2.If the submission of any strategy, plan or program is to be submitted on a progressive basis, then the relevant strategy, plan or program must clearly describe the activities to which the strategy, plan or program applies, the relationship of this activity to any future activities within the phase, and the trigger for updating the strategy, plan or program.	Applicable
MCoA	ANCILLARY FACILITIES - Ancillary Facilities	A20	Ancillary facilities that are not identified by description and location in the documents listed in Condition A1 can only be established and used in each case if: (a)they are located within or immediately adjacent to the Construction Boundary; and (b)they are not located next to sensitive land user(s) (including where an access road is between the facility and the receiver), unless the landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and (c)they have no impacts on Heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the conditions of this approval; and (d)the establishment and use of the facility can be carried out and managed within the outcomes set out in the conditions of this approval, including in relation to environmental, social and economic impacts. <i>Note: This condition does not apply to any ancillary facilities or work that are exempt or complying development, established before the commencement of construction under this approval or minor ancillary facilities established under Condition A23.</i>	Applicable
MCoA	SITE ESTABLISHMENT WORK - Site Establishment Management Plan	A21	Before establishment of any ancillary facility (excluding exempt or complying development, minor ancillary facilities determined by the ER to have minimal environmental impact and those established under Condition A23, and those considered in an approved CEMP), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the ancillary facilities. The Site Establishment Management Plan must be prepared in consultation with the Relevant Council(s) and relevant government agencies. The Site Establishment Management Plan must include: (a)a description of activities to be undertaken during establishment of the ancillary facility (including scheduling and duration of work to be undertaken at the site); (b)figures illustrating the proposed operational site layout and the location of the closest sensitive land user(s); (c)a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of site establishment work; (d)details of how the site establishment activities described in subsection (a) of this condition will be carried out to: (i)meet the performance outcomes stated in the documents listed in Condition A1, and (ii)manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and (e)a program for monitoring the performance outcomes, including a program for construction noise monitoring, where appropriate or required. Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each ancillary facility. Site Establishment Management Plans must be submitted to the Planning Secretary for approval one (1) month before the establishment of any ancillary facilities	Applicable
MCoA	Use of Ancillary Facilities	A22	The use of an ancillary facility for construction must not commence until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C5 and relevant Construction Monitoring Programs required by Condition C14 have been approved by the Planning Secretary or endorsed by the ER (whichever is applicable). <i>Note: This condition does not apply to Condition A23 or where the use of an ancillary facility is Low Impact Work or for Low Impact Work</i>	Applicable
MCoA	Minor Ancillary Facilities	A23	Lunch sheds, office sheds, portable toilet facilities, and the like, can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria: (a)are located within or adjacent to the Construction Boundary; and (b)have been assessed by the ER to have: (i)minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the ICNG, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and (ii)minimal environmental impact with respect to waste management and flooding, and (iii)no impacts on biodiversity, soil and water, and Heritage items beyond those already approved under other conditions of this approval.	Applicable
MCoA	Boundary screening	A24	Boundary screening must be erected around ancillary facilities that are adjacent to sensitive land user(s) for the duration that the ancillary facility is in use unless otherwise agreed with relevant affected residents, business operators or landowners.	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Boundary screening	A25	Boundary screening required under Condition A24 must minimise visual impacts on adjacent sensitive land user(s).	Applicable
MCoA	INDEPENDENT APPOINTMENTS	A26	All Independent Appointments required by the conditions of this approval must hold current membership of a relevant professional body, unless otherwise agreed by the Planning Secretary.	Applicable
MCoA	INDEPENDENT APPOINTMENTS	A27	The Planning Secretary may at any time commission an audit of how an Independent Appointment has exercised their functions. The Proponent must: (a)facilitate and assist the Planning Secretary in any such audit; and (b)make it a term of their engagement of an Independent Appointment that the Independent Appointment facilitate and assist the Planning Secretary in any such audit.	Applicable
MCoA	INDEPENDENT APPOINTMENTS	A28	Upon completion of an audit under Condition A27 above, the Planning Secretary may withdraw its approval of an Independent Appointment should they consider the Independent Appointment has not exercised their functions in accordance with this approval. <i>Note: Conditions A27 and A28 apply to all Independent Appointments including the ER, AA and Independent Auditor.</i>	Applicable
MCoA	ENVIRONMENT REPRESENTATIVE	A29	Work must not commence until an Environmental Representative (ER) has been nominated by the Proponent and approved by the Planning Secretary.	Applicable
MCoA	ENVIRONMENT REPRESENTATIVE	A30	The proposed ER must be a suitably qualified and experienced person(s) who was not involved in the preparation of the documents listed in Condition A1 , is independent from the design and construction personnel for the CSSI and those involved in the delivery of it and engaged for the duration of work and for no less than six (6) months following completion of construction of the CSSI.	Applicable
MCoA	ENVIRONMENT REPRESENTATIVE	A31	The Proponent may engage more than one ER for the CSSI, in which case the functions to be exercised by an ER under the conditions of this approval may be carried out by any ER that is approved by the Planning Secretary for the purposes of the CSSI. The ER must meet the requirements of the Department's Environmental Representative Protocol (DPE, 2018). The appointment of the ER must have regard to the Department's guideline Seeking approval from the Department for the appointment of independent experts (DPIE, 2020).	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	ENVIRONMENT REPRESENTATIVE	A32	For the duration of the work or as agreed with the Planning Secretary, the approved ER must: (a)receive and respond to communication from the Planning Secretary in relation to the environmental performance of the CSSI; (b)consider and inform the Planning Secretary on matters specified in the conditions of this approval; (c)consider and recommend to the Proponent improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community; (d)review documents identified in Conditions A14, A21, C1, C5 and C14 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this approval and if so: (i)must make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or (ii)must make a written statement to this effect before the implementation of such documents (if those documents are only required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary / Department); (iii)provide a written statement to the Planning Secretary advising the documents have been endorsed. (e)for documents that are required to be submitted to the Planning Secretary / Department for information under (d)(ii) above, the documents must be submitted as soon as practicable to the Planning Secretary / Department after endorsement by the ER, unless otherwise agreed by the Planning Secretary; (f)regularly monitor the implementation of the documents listed in Conditions A14, A21, C1, C5 and C14 to ensure implementation is being carried out in accordance with the document and the conditions of this approval; (g)as may be requested by the Planning Secretary, help plan or attend audits of the development commissioned by the Department including scoping audits, programming audits, briefings and site visits, but not independent environmental audits required under Condition A41; (h)as may be requested by the Planning Secretary, assist in the resolution of community complaints received directly by the Department; (i)consider or assess the impacts of minor ancillary facilities comprising lunch sheds, office sheds and portable toilet facilities as required by Condition A23; and (j)consider any minor amendments to be made to the Site Establishment Management Plan, CEMP, CEMP Sub-plans and construction monitoring programs without increasing impacts to nearby sensitive receivers, and are consistent with the conditions of this approval and the Site Establishment Management Plan, CEMP, CEMP Sub-plans and construction monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the conditions of this approval; (k)prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading "Environmental Representative Monthly Reports". The Environmental Representative Monthly Report must be submitted within seven (7) days following the end of each month for the duration of the ER's engagement for the CSSI, or as otherwise agreed by the Planning Secretary; and (l)assess the impacts of activities as required by the Low Impact Work definition. With respect to (d) above, the ER is not required to endorse the specialist content in documents requiring specialist review and / or endorsement.	Applicable
MCoA	ENVIRONMENT REPRESENTATIVE	A33	The Proponent must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in Condition A32 (including preparation of the ER monthly report), as well as: (a)the Complaints Register (to be provided on a weekly basis or as requested); and (b)a copy of any assessment carried out by the Proponent of whether proposed work is consistent with the approval (which must be provided to the ER before the commencement of the subject work).	Applicable
MCoA	ACOUSTICS ADVISOR	A34	Work must not commence until an AA has been nominated by the Proponent and approved by the Planning Secretary.	Applicable
MCoA	ACOUSTICS ADVISOR	A35	A suitably qualified and experienced Acoustics Advisor(s) (AA) in noise and vibration management, who is independent of the design and construction personnel, must be nominated by the Proponent and engaged for the duration of work (as required by Condition A34) and for no less than six (6) months following completion of construction of the CSSI.	Applicable
MCoA	ACOUSTICS ADVISOR	A36	The Proponent may nominate additional suitably qualified and experienced persons, for the Planning Secretary's approval, to assist the lead AA .	Applicable

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MCoA	ACOUSTICS ADVISOR	A37	The approved AA must: (a)receive and respond to communication from the Planning Secretary in relation to the performance of the CSSI in relation to noise and vibration; (b)consider and inform the Planning Secretary on matters specified in the conditions of this approval relating to noise and vibration; (c)consider and recommend, to the Proponent, improvements that may be made to avoid or minimise adverse noise and vibration impacts; (d)review all proposed night-time works (with the exception of low risk activities) to determine if sleep disturbance would occur and recommend measures to avoid sleep disturbance or appropriate additional alternative mitigation measures; (e)review all noise and vibration documents required to be prepared under the conditions of this approval and, should they be consistent with the conditions of this approval, endorse them before submission to the Planning Secretary (if required to be submitted to the Planning Secretary) or before implementation (if not required to be submitted to the Planning Secretary); (f)regularly monitor the implementation of all noise and vibration documents required to be prepared under the conditions of this approval to ensure implementation is in accordance with what is stated in the document and the conditions of this approval; (g)review the Proponent's notification of incidents in accordance with Condition A45; (h)in conjunction with the ER (where required), the AA must: (i)as may be requested by the Planning Secretary or Community Complaints Mediator (required by Condition B8), help plan, attend or undertake audits of noise and vibration management of the CSSI including briefings, and site visits, (ii)in the event that conflict arises between the Proponent and the community in relation to the noise and vibration performance of the CSSI, follow the procedure in the Overarching Community Communication Strategy referenced in Condition B1 to attempt to resolve the conflict, and if it cannot be resolved, notify the Planning Secretary, (iii)if requested by the ER, consider relevant minor amendments made to the Site Establishment Management Plan, CEMP, relevant sub-plans and noise and vibration monitoring programs that require updating or are of an administrative nature, and are consistent with the conditions of this approval and the management plans and monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, endorse the amendment, (this does not include any modifications to the conditions of this approval), (iv)if requested by the ER, review the noise impacts of minor ancillary facilities, and (v)prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, a Monthly Noise and Vibration Report detailing the AA's actions and decisions on matters for which the AA was responsible in the preceding month. The Monthly Noise and Vibration Report must be submitted within seven (7) days following the end of each month for the duration of the AA's engagement for the CSSI, or as otherwise agreed by the Planning Secretary.	Applicable
MCoA	ACOUSTICS ADVISOR	A38	The Proponent must cooperate with the AA by: (a)providing access to noise and vibration monitoring activities as they take place; (b)providing access to the Complaints Register if requested; (c)providing for review of noise and vibration documents required to be prepared under the conditions of this approval; and (d)considering any recommendations to improve practices and demonstrating, to the satisfaction of the AA, why any recommendation is not adopted.	Applicable
MCoA	NOTIFICATION OF COMMENCEMENT	A39	The Department must be notified in writing of the date of commencement of construction before the commencement of construction.	Applicable
MCoA	NOTIFICATION OF COMMENCEMENT	A40	If construction of the CSSI is to be phased, the Department must be notified in writing before the commencement of each phase, of the date of the commencement of that phase.	Applicable
MCoA	INDEPENDENT ENVIRONMENTAL AUDIT	A41	Independent Audits of the CSSI must be conducted and carried out in accordance with the Independent Audit Post Approval Requirements (DPIE, 2020). Notwithstanding the above, the Proponent may prepare an audit program to outline the scope and timing of each independent audit that will be undertaken during construction. If prepared, the audit program must be developed in consultation with, and approved by, the Planning Secretary before commencement of the first audit and implemented throughout construction.	Applicable
MCoA	INDEPENDENT ENVIRONMENTAL AUDIT	A42	Proposed independent auditors must be approved by the Planning Secretary before the commencement of an Independent Audit .	Applicable
MCoA	INDEPENDENT ENVIRONMENTAL AUDIT	A43	The Planning Secretary may require the initial and subsequent Independent Audits to be undertaken at different times to those specified in the Independent Audit Post Approval Requirements (DPIE, 2020), upon giving at least four (4) weeks' notice (or timing as stipulated by the Planning Secretary) to the Proponent of the date upon which the audit must be commenced.	Applicable
MCoA	INDEPENDENT ENVIRONMENTAL AUDIT	A44	Independent Audit Reports and the Proponent's response to audit findings must be submitted to the Planning Secretary within two (2) months of undertaking the independent audit site inspection as outlined in the Independent Audit Post Approval Requirements (DPIE, 2020), unless otherwise agreed by the Planning Secretary.	Applicable

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MCoA	INCIDENT AND NON-COMPLIANCE NOTIFICATION AND REPORTING	A45	The Planning Secretary must be notified via phone or in writing via the Major Projects website immediately after the Proponent becomes aware of an incident. Any notification via phone must be followed up by a notification in writing via the Major Projects website within 24 hours of the initial phone call. The written notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and general nature of the incident. Subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix A.	Applicable
MCoA	INCIDENT AND NON-COMPLIANCE NOTIFICATION AND REPORTING	A46	The Planning Secretary must be notified in writing via the Major Projects website within seven (7) days after the Proponent becomes aware of any non-compliance with the conditions of this approval.	Applicable
MCoA	INCIDENT AND NON-COMPLIANCE NOTIFICATION AND REPORTING	A47	A non-compliance notification must identify the CSSI (including the application number for it), set out the condition of approval that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be undertaken to address the non-compliance. <i>Note: A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.</i>	Applicable
MCoA	IDENTIFICATION OF PROJECT	A48	The CSSI name, application number, telephone number, postal address and email address required under Condition B3 must be available on site boundary fencing / hoarding at each ancillary facility before the commencement of construction. This information must also be provided on the website required under Condition B11 .	Applicable
MCoA	IDENTIFICATION OF PROJECT	A49	The locations of all heavy vehicles used for spoil haulage must be monitored in real time and the records of monitoring be made available to the Planning Secretary and the EPA upon request for a period of no less than one year following the completion of construction.	Applicable
MCoA	COMMUNITY INFORMATION, CONSULTATION AND INVOLVEMENT - Community Communication	B1	The Overarching Community Communication Strategy as provided in the documents listed in Condition A1 must be implemented for the duration of the work. Should the Overarching Community Communication Strategy be updated, a copy must be provided to the Planning Secretary for information.	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B2	A Complaints Management System must be prepared and implemented before the commencement of any work and maintained for the duration of construction and for a minimum for 12 months following completion of construction of the CSSI.	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B3	The following information must be available to facilitate community enquiries and manage complaints before the commencement of work and for 12 months following the completion of construction: (a)a 24- hour telephone number for the registration of complaints and enquiries about the CSSI; (b)a postal address to which written complaints and enquiries may be sent; (c)an email address to which electronic complaints and enquiries may be transmitted; and (d)a mediation system for complaints unable to be resolved. This information must be accessible to all in the community regardless of age, ethnicity, disability or literacy level.	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B4	A Complaints Register must be maintained recording information on all complaints received about the CSSI during the carrying out of any work and for a minimum of 12 months following the completion of construction. The Complaints Register must record the: (a)number of complaints received; (b)date and time of the complaint; (c)number of people in the household affected in relation to a complaint, if relevant; (d)method by which the complaint was made; (e)any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect; (f)issue of the complaint; (g)means by which the complaint was addressed and whether resolution was reached, with or without mediation; and (h)if no action was taken, the reason(s) why no action was taken.	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B5	Complainants must be advised of the following information before, or as soon as practicable after, providing personal information: (a)the Complaints Register may be forwarded to government agencies, including the Department (Department of Planning and Environment, 4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150), to allow them to undertake their regulatory duties; (b)by providing personal information, the complainant authorises the Proponent to provide that information to government agencies; (c)the supply of personal information by the complainant is voluntary; and (d)the complainant has the right to contact government agencies to access personal information held about them and to correct or amend that information (Collection Statement). The Collection Statement must be included on the Proponent or development website to make prospective complainants aware of their rights under the Privacy and Personal Information Protection Act 1998 (NSW). For any complaints made in person, the complainant must be made aware of the Collection Statement.	Applicable

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MCoA	COMPLAINTS MANAGEMENT SYSTEM	B6	The Complaints Register must be provided to the Planning Secretary upon request, within the timeframe stated in the request. <i>Note: Complainants must be advised that the Complaints Register may be forwarded to Government agencies to allow them to undertake their regulatory duties</i>	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B7	A Community Complaints Mediator that is independent of the design and construction personnel must be engaged by the Proponent, upon the referral of the complaint by the ER in accordance with the Overarching Community Communication Strategy .	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B8	The role of the Community Complaints Mediator is to provide independent mediation services for any reasonable and unresolved complaint referred by the ER where a member of the public is not satisfied by the Proponent's response. Where a Community Complaints Mediator is required, a mediator accredited under the National Mediator Accreditation System (NMAS), administered by the Mediator Standards Board must be appointed.	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B9	Community Complaints Mediation will: (a)review any unresolved disputes, referred by the ER in accordance with the Overarching Community Communication Strategy ; (b)make recommendations to the Proponent to satisfactorily address complaints, resolve disputes or mitigate against the occurrence of future complaints or disputes	Applicable
MCoA	COMPLAINTS MANAGEMENT SYSTEM	B10	Community Complaints Mediation will not be enacted before the Complaints Management System required by Condition B2 has been executed for a complaint and will not consider issues such as property acquisition, where other dispute processes are provided for in this approval or clear government policy and resolution processes are available, or matters which are not within the scope of this CSSI.	Applicable
MCoA	PROVISION OF ELECTRONIC INFORMATION	B11	A website or webpage providing information in relation to the CSSI must be established before commencement of work and maintained for the duration of construction, and for a minimum of 24 months following the completion of all phases of construction of the CSSI. Up-to-date information (excluding confidential, private, commercial information or other documents as agreed to by the Planning Secretary) must be published before the relevant work commencing and maintained on the website or dedicated pages including: (a)information on the current implementation status of the CSSI; (b)a copy of the documents listed in Condition A1 , and any documentation relating to any modifications made to the CSSI or the conditions of this approval; (c)a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its conditions), and copies of any approval granted by the Minister to a modification of the conditions of this approval, or links to the referenced documents where available; (d)a copy of each statutory approval, licence or permit required and obtained in relation to the CSSI, or where the issuing agency maintains a website of approvals, licences or permits, a link to that website; (e)a current copy of each document required under the conditions of this approval, which must be published within one (1) week of its approval or before the commencement of any work to which they relate or before their implementation, as the case may be; and (f)a copy of the audit reports required under this approval. Where the information / document relates to a particular work or is required to be implemented, it must be published before the commencement of the relevant work to which it relates or before its implementation. All information required in this condition is to be provided on the website or webpage, and easy to navigate. Note: <i>The intention of this condition is to increase transparency and for information/documents required as part of the approval to be provided proactively and publicly in an easily accessible manner. Where information is exempted by this condition, it is intended that these documents are provided in their redacted form.</i>	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C1	Construction Environmental Management Plans (CEMPs) and CEMP Sub-plans must be prepared in accordance with the Construction Environmental Management Framework (CEMF) included in the documents listed in Condition A1 to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 will be implemented and achieved during construction.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C2	With the exception of any CEMPs expressly nominated by the Planning Secretary to be endorsed by the ER , all CEMPs must be submitted to the Planning Secretary for approval.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C3	The CEMP(s) not requiring the Planning Secretary's approval must be submitted to the ER for endorsement no later than one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase. That CEMP must obtain the endorsement of the ER as being consistent with the conditions of this approval and all undertakings made in the documents listed in Condition A1 .	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C4	Any CEMP to be approved by the Planning Secretary must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Applicable

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MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C5	Of the CEMP Sub-plans required under Condition C1, the following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of issues raised by a government agency during consultation must be included in the relevant CEMP Sub-plan, including copies of all correspondence from those government agencies as required by Condition A6. Where a government agency (ies) request(s) is not included, the Proponent must provide the Planning Secretary / ER (whichever is applicable) justification as to why: (a) Noise and vibration: Place Management NSW (in respect of The Bays) and Relevant Council(s) (b) Flora and fauna: DPE Environment and Heritage Group, DPI Fisheries, and Relevant Council(s) (c) Heritage (Non-Aboriginal and Aboriginal): Heritage NSW, Place Management NSW (in respect of The Bays) and Relevant Council(s) (d) Spoil: Relevant council(s) (e) Soil and water: DPE Water and Relevant Council(s)	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C6	The CEMP Sub-plans must state how: (a) the environmental performance outcomes identified in the documents listed in Condition A1 will be achieved; (b) the mitigation measures identified in the documents listed in Condition A1 will be implemented; (c) the relevant conditions of this approval will be complied with; and (d) issues requiring management during construction (including cumulative impacts), as identified through ongoing environmental risk analysis, will be managed through SMART principles.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C7	With the exception of any CEMP Sub-plans expressly nominated by the Planning Secretary to be endorsed by the ER , all CEMP Sub-plans must be submitted to the Planning Secretary for approval.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C8	The CEMP Sub-plans not requiring the Planning Secretary's approval must obtain the endorsement of the ER as being in accordance with the conditions of approval and all relevant undertakings made in the documents listed in Condition A1 . Any of these CEMP Sub-plans must be submitted to the ER with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before construction or where construction is phased no later than one (1) month before the commencement of that phase.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C9	Any of the CEMP Sub-plans to be approved by the Planning Secretary must be submitted to the Planning Secretary with, or subsequent to, the submission of the CEMP but in any event, no later than one (1) month before construction or where construction is phased no later than one (1) month before the commencement of that phase.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C10	Construction must not commence until the CEMP and all CEMP Sub-plans have been approved by the Planning Secretary or endorsed by the ER (whichever is applicable), unless otherwise agreed by the Planning Secretary. The CEMP and CEMP Sub-plans , as approved by the Planning Secretary or endorsed by the ER (whichever is applicable), including any minor amendments approved by the ER , must be implemented for the duration of construction. Where construction of the CSSI is phased, construction of a phase must not commence until the CEMP and CEMP Sub-plans for that phase have been approved by the Planning Secretary or endorsed by the ER upon nomination by the Planning Secretary (whichever is applicable).	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C11	In addition to the relevant requirements of the CEMF, the Flora and fauna CEMP Sub-plan must address procedures to avoid, minimise, mitigate and manage impacts on native fauna prior to clearing of vegetation and demolition of potential microbat roost structures. The Flora and fauna CEMP Sub-plan must include, but not be limited to: (a) preclearance surveys for vegetation and potential microbat roost structures that require demolition; (b) Unexpected Microbat Find Procedure that: (i) includes protocols in the event microbats are identified; (ii) notification to the NSW Environment and Heritage Group in the event microbats and/or roosting sites are identified; and (iii) details for undertaking and mitigating vegetation clearance.	Applicable

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MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C12	In addition to the relevant requirements of the CEMF, the Heritage CEMP Sub-plan must include, but not be limited to: (b)be prepared in consultation with a suitably qualified and experienced heritage expert; (c)identify exclusion zones, archival recording requirements, baseline and periodic monitoring protocols (including before and during construction); (d)identify and assess the heritage significance of items identified as retaining 'potential heritage significance' in the documents listed in Condition A1 and which will be impacted by the CSSI; (e)in association with Condition D44, set out the final site inspections to be conducted for the Post-Construction Condition Report within three (3) months of completion of construction for the following heritage sites unless otherwise agreed by the Planning Secretary: (i)Former Skinners Family Hotel (SHR 00584); (ii)NSW Club House Building (SHR 00145); (iii)Former Bank – Delfin House (SLEP I1903); and (iv)Richard Johnson Square (SLEP I1673). (f)set out means of rectification of any damage by the CSSI to Heritage items (d)(i) to (d)(iv) above within six (6) months of the completion of construction at the construction site identified in the relevant Heritage CEMP Sub-plan. This rectification work must be in consultation with a suitably qualified and experienced heritage consultant to ensure the use of appropriate materials, appropriate conservation practices and in accordance with existing heritage management documents (for example, conservation management plans or strategies) to protect and conserve the heritage significance of the items. The Heritage CEMP Sub-plan must include Aboriginal cultural heritage management and mitigation measures (that may include conservation, archaeological salvage excavation and community collection) based on the Aboriginal Cultural Heritage Excavation Report and continuing Aboriginal community consultation.	Applicable
MCoA	CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN	C13	In addition to the relevant requirements of the CEMF, the Soil and Water CEMP Sub-plan must include, but not be limited to: (a)details of construction activities and their locations which have the potential to expose areas known to contain, or potentially contain, contaminated soils and / or materials; (b)measures for the handling, treatment and management of hazardous and contaminated soils and materials including measures to manage and / or minimise worker and public health and safety with regards to exposure to contamination; and (c)a description of how the effectiveness of the actions and measures for managing contamination impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, and how the results of the monitoring would be recorded and reported. The contamination component of the Soil and Water CEMP Sub-plan must be prepared, (or reviewed and approved), by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C14	The following Construction Monitoring Programs must be prepared in consultation with the relevant government agencies identified for each to compare actual performance of construction of the CSSI against the performance predicted in the documents listed in Condition A1 or in the CEMP: (a) Noise and vibration: EPA, Place Management NSW (in respect of The Bays) and Relevant Council(s) (b) Surface water quality: DPE Water, Relevant Council(s) and Sydney Water (if any Sydney Water assets are impacted) (c) Groundwater: DPE Water	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C15	Each Construction Monitoring Program must provide: (a)details of baseline data available including the period of baseline monitoring; (b)details of baseline data to be obtained and when; (c)details of all monitoring of the project to be undertaken; (d)the parameters of the project to be monitored; (e)the frequency of monitoring to be undertaken; (f)the location of monitoring; (g)the reporting of monitoring results and analysis results against relevant criteria; (h)details of the methods that will be used to analyse the monitoring data; (i)procedures to identify and implement additional mitigation measures where the results of the monitoring indicated unacceptable project impacts; (j)a consideration of SMART principles; and (k)any consultation to be undertaken in relation to the monitoring programs; and (l)any specific requirements as required by Conditions C16 and C17.	Applicable

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MCoA	CONSTRUCTION MONITORING PROGRAMS	C16	The Noise and Vibration Construction Monitoring Program must include: (a)noise and vibration monitoring determined in consultation with the AA to confirm the best-achievable construction noise and vibration levels with consideration of all reasonable and feasible mitigation and management measures that will be implemented; (b)for the purposes of (a), noise monitoring must be undertaken during the day, evening and night-time periods and within the first month of work as well as throughout the construction period and cover the range of activities being undertaken at the sites; and (c)a process to undertake real time noise and vibration monitoring. The results of the monitoring must be readily available to the construction team, the Proponent, ER and AA. The Planning Secretary and EPA must be provided with access to the results on request. (d)noise monitoring methods must be developed and carried out to meet the requirements of the EPA's Approved Methods for the Measurement and Analysis of Environmental Noise (EPA, 2022).	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C17	Groundwater Construction Monitoring Program must include: (a)groundwater monitoring networks at each construction excavation site; (b)detail of the location of all monitoring bores with nested sites to monitor both shallow and deep groundwater levels and quality; (c)define the location of saltwater interception monitoring where sentinel groundwater monitoring bores will be installed between the saline sources of the estuary or river and that of the stations or shafts; (d)results from existing monitoring bores; (e)monitoring and gauging of groundwater inflow to the excavations, appropriate trigger action response plan for all predicted groundwater impacts upon each noted neighbouring groundwater system component for each excavation construction site; (f)trigger levels for groundwater quality, salinity and groundwater drawdown in monitoring bores and / or other groundwater users; (g)daily measurement of the amount of water discharged from the water treatment plants; (h)water quality testing of the water discharged from treatment plants; (i)management and mitigation measures and criteria; (j)groundwater inflow to the excavations to enable a full accounting of the groundwater take from the Sydney Basin Central Groundwater Source; and (k)reporting of groundwater gauging at excavations, groundwater monitoring, groundwater trigger events and action responses; and (l)methods for providing the data collected to Sydney Water where discharges are directed to their assets.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C18	With the exception of any Construction Monitoring Programs expressly nominated by the Planning Secretary to be endorsed by the ER , all Construction Monitoring Programs must be submitted to the Planning Secretary for approval.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C19	The Construction Monitoring Programs not requiring the Planning Secretary's approval must obtain the endorsement of the ER as being in accordance with the conditions of approval and all undertakings made in the documents listed in Condition A1 . Any of these Construction Monitoring Programs must be submitted to the ER for endorsement at least one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C20	Any of the Construction Monitoring Programs which require Planning Secretary approval must be endorsed by the ER and then submitted to the Planning Secretary for approval at least one (1) month before the commencement of construction or where construction is phased no later than one (1) month before the commencement of that phase.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C21	Unless otherwise agreed with the Planning Secretary, construction must not commence until the Planning Secretary has approved, or the ER has endorsed (whichever is applicable), all of the required Construction Monitoring Programs and all relevant baseline data for the specific construction activity has been collected.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C22	The Construction Monitoring Programs , as approved by the Planning Secretary or the ER has endorsed (whichever is applicable), including any minor amendments approved by the ER , must be implemented for the duration of construction and for any longer period set out in the monitoring program or specified by the Planning Secretary or the ER (whichever is applicable), whichever is the greater.	Applicable
MCoA	CONSTRUCTION MONITORING PROGRAMS	C23	The results of the Construction Monitoring Programs must be submitted to the Planning Secretary, ER, AA (where relevant) and relevant regulatory agencies, for information in the form of a Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring Program. Notes: 1.Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be incorporated into that CEMP Sub-plan. 2.Data must be provided in an acceptable format for relevant regulatory agencies. 3.With regards to monitoring data to be provided to DPE Water, the format of the dataset must be both in a tabulated and electronic quality-controlled data (.csv, Excel) ready to use format.	Applicable
MCoA	AIR QUALITY	D1	All reasonably practicable measures must be implemented to minimise the emission of dust and other air pollutants during construction.	Applicable

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Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	FLOODING	D2	Unless otherwise agreed by the Planning Secretary, the CSSI must be designed and constructed to not worsen flooding characteristics within and in the vicinity of the CSSI. Not worsen existing flooding characteristics means the following: (a)a maximum increase in inundation time of one hour during any flood event up to and including a one (1) per cent Annual Exceedance Probability (AEP) flood event; (b)a maximum increase of 10 mm in inundation at properties where floor levels are currently exceeded during any flood event up to and including a one (1) per cent AEP flood event; (c)a maximum increase of 50 mm in inundation of land at properties where floor levels would not be exceeded during any flood event up to and including a one (1) per cent AEP flood event; and (d)no inundation of floor levels which are currently not inundated during any flood event up to and including a one (1) per cent AEP flood event. Measures identified in the documents listed in Condition A1 of this schedule to not worsen flooding characteristics or measures that achieve the same outcome must be incorporated into the detailed design. The incorporation of these measures must be reviewed and endorsed by a suitably qualified and experienced person in consultation with directly affected landowners, DPE Water, DPI Fisheries, Environment and Heritage Group, NSW State Emergency Service (SES) and relevant Councils. Where flooding characteristics exceed the levels identified in (a), (b), (c), (d) Condition D2 above, the Proponent must undertake the following: (a)consult with property owners for properties adversely flood affected as a result of the CSSI and mitigate where necessary; and (b)consult with the NSW State Emergency Service (SES) and relevant Councils regarding the management of any residual flood risk beyond the 1 per cent AEP flood event and up to the probable maximum flood.	Applicable
MCoA	FLOODING	D3	Flood information including flood reports, project flood models, data and geographic information system outputs, must be provided to the relevant Council, Environment and Heritage Group and the SES. The Council, Environment and Heritage Group and the SES must be notified in writing that the information is available no later than one (1) month following the completion of construction. Information requested by the relevant Council, Environment and Heritage Group or the SES must be provided no later than six (6) months following the completion of construction or within another timeframe agreed with the relevant Council, Environment and Heritage Group and the SES.	Applicable
MCoA	HERITAGE Non-Aboriginal Heritage	D4	The Proponent must not destroy, modify or otherwise affect any Heritage item not identified in documents referred to in Condition A1. Unexpected heritage finds identified by the CSSI must be managed in accordance with the Sydney Metro Unexpected Heritage Finds Procedure (Sydney Metro 2022) and the Exhumation Management Procedure (Sydney Metro 2022) outlined in the documents list under Condition A1. Consideration of avoidance and redesign to protect state significant unexpected finds must be addressed where this condition applies. <i>Note: Affect in this condition means any impact above "little to no impact" as defined in the Material Threshold Policy (Heritage NSW, 2020).</i>	Applicable
MCoA	HERITAGE Non-Aboriginal Heritage	D5	Before installing acoustic treatment at any heritage item identified in the documents listed in Condition A1, the advice of a suitably qualified and experienced built heritage expert must be obtained to guide installation to minimise impact to the heritage significance of the item or fabric.	Applicable
MCoA	HERITAGE Non-Aboriginal Heritage	D6	Before commencement of excavation at the Hunter Street metro station construction site, investigations must be carried out to confirm and record the location, depth, integrity, extent and condition of the Tank Stream (SHR item no. 00636) and Bennelong Stormwater Channel No. 29A (Sydney Water s170 item no. 4570854). Survey investigations must be supervised by a suitably qualified heritage consultant in consultation with Sydney Water. The results of the investigations must be incorporated in the relevant final Heritage Report.	Applicable
MCoA	HERITAGE Non-Aboriginal Heritage	D7	During construction, the Proponent must implement protective measures to prevent adverse impacts to the heritage significance of the former Skinners Family Hotel. Before installing such measures, the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work does not have an adverse impact on the heritage significance of the item. Protection measures must also consider and avoid potential impacts to significant historical archaeology and seek the advice from the Excavation Director approved under Condition D16 below.	Applicable
MCoA	HERITAGE Non-Aboriginal Heritage	D8	The Former Skinners Family Hotel, Tank Stream, Bennelong Stormwater Channel No. 29A, NSW Club house Building, Delfin House, Richard Johnson Square, Railway Cutting (Pyrmont), and St James Railway Station must not be destroyed, modified or otherwise affected, except as identified in the documents listed in Condition A1. <i>Note: Affected in this condition means any impact above "little to no impact" as defined in the Material Threshold Policy (Heritage NSW, 2020).</i>	Applicable
MCoA	HERITAGE Non-Aboriginal Heritage	D9	Where Heritage items, or items assessed to be of local heritage significance in the documents listed in Condition A1, are proposed to be fully or partially destroyed, heritage salvage must occur in consultation with a suitably qualified heritage specialist. The Proponent must develop a significant fabric and moveable heritage salvage register. The register must identify significant items to be salvaged. Salvage must occur for items that are assessed as having heritage significance and the potential for re-use or reinstatement has been identified. The salvage from any State-listed items must be undertaken in consultation with Heritage NSW.	Applicable
MCoA	Aboriginal Heritage	D10	All reasonable steps must be taken not to harm, modify or otherwise impact Aboriginal objects except as authorised by this approval.	Applicable
MCoA	Aboriginal Heritage	D11	The Registered Aboriginal Parties (RAPs) must be kept informed about the CSSI. The RAPs must continue to be provided with the opportunity to be consulted about the Aboriginal cultural heritage management requirements of the CSSI.	Applicable
MCoA	Aboriginal Heritage	D12	Excavation must not commence in areas where archaeological excavation is required until the archaeological works outlined in the Archaeological Research Design/s referred to in Condition A1 have been completed.	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Aboriginal Heritage	D13	At the completion of Aboriginal cultural heritage test and salvage excavations, an Aboriginal Cultural Heritage Excavation Report(s) , prepared by a suitably qualified expert, must be prepared in accordance with the <i>Guide to Investigation, assessing and reporting on Aboriginal cultural heritage in NSW</i> , OEH 2011 and the <i>Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales</i> , DECCW 2010. The Aboriginal Cultural Heritage Excavation Report(s) must document the results of the archaeological test excavations and any subsequent salvage excavations. The RAPs must be given a minimum of 28 days to consider the report and provide comments before the report is finalised. The final report must be provided to Heritage NSW within 24 months of the completion of the Aboriginal archaeological excavations (both test and salvage).	Applicable
MCoA	Aboriginal Heritage	D14	Where previously unidentified Aboriginal objects are discovered, all work must immediately stop in the vicinity of the affected area and a suitably qualified and experienced Aboriginal heritage expert must be contacted to provide specialist heritage advice, before construction recommences. The measures to consider and manage this process must be specified in the Heritage CEMP Sub-plan required by Condition C5 and, where relevant, include registration in the Aboriginal Heritage Information Management System (AHIMS).	Applicable
MCoA	Excavation and Archaeology	D15	Archaeological mitigation measures recommended in the Archaeological Research Design/s must be carried out in accordance with Heritage NSW guidelines, and where appropriate, supervised by a suitably qualified Excavation Director approved under Condition D16 . The Archaeological Research Design/s must be implemented throughout the entire archaeological excavation programs.	Applicable
MCoA	Excavation and Archaeology	D16	Before ground disturbance in areas subject to archaeological excavation, the Proponent must nominate a suitably qualified Excavation Director , who complies with Heritage Council of NSW's Criteria for Assessment of Excavation Director (September 2019), to oversee and advise on matters associated with historical archaeology for the approval of the Planning Secretary, in consultation with Heritage NSW. The Excavation Director must be present to oversee excavation, advise on archaeological issues, advise on the duration and extent of oversight required during archaeological excavations consistent with the approved Archaeological Research Designs under Condition A1 . Aboriginal archaeological excavations must be conducted by a suitably qualified person in accordance with the requirements of the Code of Practice for Archaeological Investigation of Aboriginal Objects in New South Wales (DECCW 2010). More than one Excavation Director may be engaged for the CSSI to exercise the functions required under the conditions of this approval.	Applicable
MCoA	Excavation and Archaeology	D17	Following completion of all work described in the documents listed in Condition A1 in relation to heritage items, a Heritage Report including the details of any archival recording, further historical research either undertaken or to be carried out and archaeological excavations (with artefact analysis and identification of a final repository for finds), must be prepared in accordance with any guidelines and standards required by the Heritage Council of NSW and Heritage NSW.	Applicable
MCoA	Excavation and Archaeology	D18	The Heritage Report must be submitted to the Planning Secretary, the Heritage Council of NSW and Heritage NSW for information no later than 24 months after the completion of the work referred to in Condition D17 .	Applicable
MCoA	Unexpected Finds	D19	The Sydney Metro Unexpected Heritage Finds Procedure (Sydney Metro 2022) and the Exhumation Management Procedure (Sydney Metro 2022), as submitted to the Planning Secretary, must be implemented for the duration of construction. <i>Note: Human remains that are found unexpectedly during the carrying out of work may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately. Management of human remains in NSW is subject to requirements set out in the Public Health Act 2010 (NSW) and Public Health Regulation 2012 (NSW).</i>	Applicable
MCoA	NOISE AND VIBRATION Land Use Survey	D20	A detailed land use survey must be undertaken to confirm sensitive receivers (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction noise and vibration and construction ground-borne noise. The survey may be undertaken on a progressive basis but must be undertaken in any one area before the commencement of work which generates construction noise, vibration or ground-borne noise in that area. The results of the survey must be included in the Noise and Vibration CEMP Sub-plan required under Condition C5 .	Applicable
MCoA	Construction Hours	D21	Work must only be undertaken during the following hours: (a) 7:00am to 6:00pm Mondays to Fridays, inclusive; (b) 8:00am to 6:00pm Saturdays; and (c) at no time on Sundays or public holidays.	Applicable
MCoA	Highly Noise Intensive Work	D22	Except as permitted by an EPL, highly noise intensive work that results in an exceedance of the applicable NML at the same receiver must only be undertaken: (a) between the hours of 8:00 am to 6:00 pm Monday to Friday; (b) between the hours of 8:00 am to 1:00 pm Saturday; and (c) if continuously, then not exceeding three (3) hours, with a minimum cessation of work of not less than one (1) hour. For the purposes of this condition, 'continuously' includes any period during which there is less than one (1) hour between ceasing and recommencing any of the work.	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Variation to Work Hours	D23	Notwithstanding Conditions D21 and D22 work may be undertaken outside the hours specified in the following circumstances: (a) Safety and Emergencies, including: (i) for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or (ii) where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm. On becoming aware of the need for emergency work in accordance with (a)(ii) above, the AA, the ER, the Planning Secretary and the EPA must be notified of the reasons for such work. The Proponent must use best endeavours to notify as soon as practicable all noise and/or vibration affected sensitive land user(s) of the likely impact and duration of those work. (b) Low Noise Impact Work, including: (i) construction that causes LAeq(15 minute) noise levels: • no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and • no more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land user(s); and (ii) construction that causes LAFmax(15 minute) noise levels no more than 15 dB(A) above the rating background level at any residence; or (iii) construction that causes: • continuous or impulsive vibration values, measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or • intermittent vibration values measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006). (c) By Approval, including: (i) where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or (ii) works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol as required by Condition D24; or (iii) negotiated agreements with directly affected residents and sensitive land user(s). (d) By Prescribed Activity, including: (i) tunnelling by tunnel boring machine (excluding cut and cover tunnelling and surface works) are permitted 24 hours a day, seven days a week; or (ii) delivery of material that is required to be delivered outside of standard construction hours in Condition D21 to directly support tunnelling activities, except between the hours 10:00 pm and 7:00 am to / from the Pyrmont construction site which could result in a sleep disturbance event for receivers in the proximity of Pyrmont Street, Edward Street, Union Street, Paternoster Row and Pyrmont Bridge Road; or (iii) haulage of spoil except between the hours of 10:00 pm and 7:00 am to / from the Pyrmont construction site; or (iv) work within an acoustic shed where there is no exceedance of noise levels under Low Noise Impact Work circumstances identified in (b) above, unless otherwise agreed by the Planning Secretary. <i>Note: Tunnelling does not include station box excavation.</i>	Applicable
MCoA	Out-of-Hours Work Protocol – Work not subject to an EPL	D24	An Out-of-Hours Work Protocol must be prepared before the approval of out-of-hours-work under Condition D23(c)(ii). The Protocol must identify a process for the consideration, management and approval of work which are outside the hours defined in Conditions D21 and D22. The Protocol must be approved by the Planning Secretary before commencement of the out-of-hours work. The Protocol must be prepared in consultation with the ER and the AA. The Protocol must provide: (a) identification of low and high-risk activities and an approval process that considers the risk of activities, proposed mitigation, management, and coordination, including where: (i) the ER and AA review all proposed out-of-hours activities and confirm their risk levels; (ii) low risk activities can be approved by the ER in consultation with the AA; and (iii) high risk activities that are approved by the Planning Secretary; (b) a process for the consideration of out-of-hours work against the relevant NML and vibration criteria; (c) a process for selecting and implementing mitigation measures for residual impacts in consultation with the community at each affected location, including respite periods consistent with the requirements of Condition D36. The measures must take into account the predicted noise levels and the likely frequency and duration of the out-of-hours works that sensitive land user(s) would be exposed to, including the number of noise awakening events; (d) procedures to facilitate the coordination of out-of-hours work including those approved by an EPL or undertaken by a third party, to ensure appropriate respite is provided; and (e) notification arrangements for affected receivers for all approved out-of-hours works and notification to the Planning Secretary of approved low risk out-of-hours works. This condition does not apply if the requirements of Condition D23(b) are met. <i>Note: Out-of-hours work is any work that occurs outside the construction hours identified in Conditions D21 and the predicted noise levels and the likely frequency and duration of the out-of-hours works that sensitive land user(s) would be exposed to, including the number of noise awakening events;</i> (d) procedures to facilitate the coordination of out-of-hours work including those approved by an EPL or undertaken by a third party, to ensure appropriate respite is provided; and (e) notification arrangements for affected receivers for all approved out-of-hours works and notification to the Planning Secretary of approved low risk out-of-hours works. This condition does not apply if the requirements of Condition D23(b) are met. <i>Note: Out-of-hours work is any work that occurs outside the construction hours identified in Conditions D21 and D22</i>	Applicable

Scope:	Sydney Metro West			
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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Construction Noise Management Levels and Vibration Criteria	D25	All reasonable and feasible mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration criteria: (a)construction 'Noise affected' noise management levels established using the <i>Interim Construction Noise Guideline</i> (DECC, 2009); (b)vibration criteria established using the <i>Assessing vibration: a technical guideline</i> (DEC, 2006) (for human exposure); (c)Australian Standard AS 2187.2 - 2006 "<i>Explosives - Storage and Use - Use of Explosives</i>" (for human exposure); (d)BS 7385 Part 2-1993 "<i>Evaluation and measurement for vibration in buildings Part 2</i>" as they are "applicable to Australian conditions"; and (e)the vibration limits set out in the <i>German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures</i> (for structural damage for structurally unsound heritage items). Any work identified as exceeding the noise management levels and / or vibration criteria must be managed in accordance with the Noise and Vibration CEMP Sub-plan. <i>Note: The ICNG identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction Noise Management Level</i>	Applicable
MCoA	Construction Noise Management Levels and Vibration Criteria	D26	All reasonable and feasible mitigation measures must be applied when the following residential ground-borne noise levels are exceeded: (a)evening (6:00 pm to 10:00 pm) — internal LAeq(15 minute): 40 dB(A); and (b)night (10:00 pm to 7:00 am) — internal LAeq(15 minute): 35 dB(A). The mitigation measures must be outlined in the Noise and Vibration CEMP Sub-plan, including in any Out-of-Hours Work Protocol, required by Condition D24.	Applicable
MCoA	Construction Noise Management Levels and Vibration Criteria	D27	Noise generating work in the vicinity of potentially-affected community, religious, educational institutions and noise and vibration-sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres) resulting in noise levels above the NMLs must not be timetabled within sensitive periods, unless other reasonable arrangements with the affected institutions are made at no cost to the affected institution.	Applicable
MCoA	Construction Noise and Vibration Mitigation and Management	D28	Industry best practice construction methods must be implemented where reasonably practicable to ensure that noise levels are minimised around sensitive land user(s). Practices must include, but are not limited to: (a)use of regularly serviced low sound power equipment; (b)temporary noise barriers (including the arrangement of plant and equipment) around noisy equipment and activities such as rock hammering and concrete cutting; and (c)use of alternative construction and demolition techniques.	Applicable
MCoA	Construction Noise and Vibration Mitigation and Management	D29	Detailed Noise and Vibration Impact Statements (DNVIS) must be prepared for any work that may exceed the NMLs, vibration criteria and / or ground-borne noise levels specified in Conditions D25 and D26 at any residence outside construction hours identified in Condition D21 , or where receivers will be highly noise affected. The DNVIS must include specific mitigation measures identified through consultation with affected sensitive land user(s) and the mitigation measures must be implemented for the duration of the works. A copy of the DNVIS must be provided to the AA and ER before the commencement of the associated works. The Planning Secretary and the EPA may request a copy (ies) of the DNVIS .	Applicable
MCoA	Construction Noise and Vibration Mitigation and Management	D30	DNVIS must be prepared for each construction site before construction noise and vibration impacts commence and include specific mitigation measures identified through consultation with affected sensitive land users and updated as required if site conditions or activities change.	Applicable
MCoA	Construction Noise and Vibration Mitigation and Management	D31	Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified before works that generate vibration commences in the vicinity of those properties. If the potential exceedance is to occur more than once or extend over a period of 24 hours, owners and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the Noise and Vibration CEMP Sub-plan .	Applicable
MCoA	Construction Vibration Mitigation – Heritage	D32	Vibration testing must be conducted during vibration generating activities that have the potential to impact on Heritage items to identify minimum working distances to prevent cosmetic damage. In the event that the vibration testing and attended monitoring shows that the preferred values for vibration are likely to be exceeded, the Proponent must review the construction methodology and, if necessary, implement additional mitigation measures. Such measures must include, but not be limited to, review or modification of excavation techniques.	Applicable
MCoA	Construction Vibration Mitigation – Heritage	D33	The Proponent must seek the advice of a heritage specialist on methods and locations for installing equipment used for vibration, movement and noise monitoring at Heritage items. <i>Note: The installation of noise and vibration equipment must not impact on the heritage value of the Heritage items.</i>	Applicable
MCoA	Construction Vibration Mitigation – Heritage	D34	Before conducting at-property treatment at any Heritage item identified in the documents listed in Condition A1 , the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work does not have an adverse impact on the heritage significance of the item.	Applicable
MCoA	Construction Vibration Mitigation – Heritage	D35	If a Heritage item is found to be structurally unsound (following inspection) a more conservative cosmetic damage criterion of 2.5 mm/s peak component particle velocity (from DIN 4150) must be applied.	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Utility Coordination and Respite	D36	All work undertaken for the delivery of the CSSI, including those undertaken by third parties (such as utility relocations) must be coordinated to ensure respite periods are provided. The Proponent must: (a)reschedule any work to provide respite to impacted noise sensitive receivers so that the respite is achieved in accordance with Condition D37; or (b)consider the provision of alternative respite or mitigation to impacted noise sensitive receivers; and (c)provide documentary evidence to the AA in support of any decision made by the Proponent in relation to respite or mitigation. The consideration of respite must also include all other approved Critical SSI, SSI and SSD projects which may cause cumulative and / or consecutive impacts at receivers affected by the delivery of the CSSI.	Applicable
MCoA	Out-of-Hours Works – Community Consultation on Respite	D37	In order to undertake out-of-hours work outside the hours specified under Condition D21, appropriate respite periods for the out-of-hours work must be identified in consultation with the community at each affected location on a regular basis. This consultation must include (but not be limited to) providing the community with: (a)a progressive schedule for periods no less than three (3) months of likely out-of-hours work; (b)a description of the potential work, location and duration of the out-of-hours work; (c)the noise characteristics and likely noise levels of the work; and (d)likely mitigation and management measures which aim to achieve the relevant NMLs under Condition D26 (including the circumstances of when respite or relocation offers will be available and details about how the affected community can access these offers). The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour work must be provided to the AA, EPA and the Planning Secretary. <i>Note: Respite periods can be any combination of days or hours where out-of-hours work would not be more than 5 dB(A) above the RBL at any residence.</i>	Applicable
MCoA	Rockbreaking and Respite	D38	The Proponent must identify all receivers at Pyrmont and Hunter Street Sydney CBD likely to experience internal noise levels greater than Leq(15 minute) 60 dB(A) inclusive of a 5 dB penalty, if rock breaking or any other highly noise intensive activity likely to result in regenerated (ground-borne) noise or a perceptible level of vibration is planned (including works associated with utility adjustments), between 7am and 8pm. <i>Note: This condition does not override requirements for work hours as outlined in Conditions D21, D22 and D23 above .</i>	Applicable
MCoA	Rockbreaking and Respite	D39	The Proponent must consult with all receivers identified in accordance with Condition D38 with the objective of determining appropriate hours of respite so that construction noise (including ground-borne noise), does not exceed internal noise levels of: (a)Leq(15 minute) 60 dB(A) inclusive of a 5 dB penalty if rock breaking or any other highly noise intensive activity likely to result in ground-borne noise or a perceptible level of vibration is planned between 7am – 8pm for more than 50 percent of the time; and (b)Leq(15 minute) 55 dB(A) inclusive of a 5 dB penalty if rock breaking or any other highly noise intensive activity likely to result in ground-borne noise or a perceptible level of vibration is planned between 7am – 8pm for more than 25 percent of the time, unless an agreement is reached with those receivers. This condition does not apply to noise associated with the cutting surface of a TBM as it passes under receivers. <i>NoteThis condition requires that noise levels be less than Leq(15 minute) 60 dB(A) for at least 6.5 hours between 7am and 8pm, of which at least 3.25 hours must be below Laeq(15 minute) 55 dB(A). Noise equal to or above Leq(15 minutes) 60 dB(A) is allowed for the remaining 6.5 hours between 7am and 8pm.</i>	Applicable
MCoA	Rockbreaking and Respite	D40	Notwithstanding Conditions D22 and D23, rock breaking and other particularly highly noise intensive activities for station shaft or cut and cover stations is not permitted outside of hours identified in Condition D21, except at Hunter Street Sydney CBD; or (a)where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm; or (b)where different construction hours are permitted or required under an EPL in force in respect of the construction; or (c)where an EPL is not required or in force, approved through an Out of Hours Work Protocol developed in accordance with Condition D24; or (d)construction that causes LAeq(15 min) noise levels: (i)no more than 5 dB(A) above the rating background level at any residence in accordance with the <i>Interim Construction Noise Guideline (DECC, 2009)</i> ; and (ii)no more than the noise management levels specified in Table 3 of the Interim Construction Noise Guideline (DECC, 2009) at other sensitive land uses; and (iii)continuous or impulsive vibration values, measures at the most affected residence are no more than those for human exposure to vibration, specified in Table 2.2 of <i>Assessing Vibration: a technical guideline</i> (DEC, 2006); and (iv)intermittent vibration values measured at the most affected residence are no more than those for human exposure to vibration, specified in Table 2.4 of <i>Assessing Vibration: a technical guideline</i> (DEC, 2006).	Applicable
MCoA	Blasting	D41	No blasting is permitted as part of this CSSI.	Applicable
MCoA	LAND USE AND PROPERTY	D42	The CSSI must be designed and constructed with the objective of minimising impacts to, and interference with, third party property and infrastructure, and that such infrastructure and property is protected during construction.	Applicable
MCoA	LAND USE AND PROPERTY	D43	The utilities and services (hereafter “services”) potentially affected by construction must be identified to determine requirements for diversion, protection and / or support. Alterations to services must be determined by negotiation between the Proponent and the service providers. Disruption to services resulting from construction must be avoided, wherever possible, and advised to customers where it is not possible.	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Condition Survey	D44	A suitably qualified and experienced person must undertake condition surveys of all buildings, structures, utilities and the like identified in the documents listed in Condition A1 as being at risk of damage before commencement of any work that could impact on the subject surface / subsurface structure. The results of the surveys must be documented in a Pre-construction Condition Survey Report for each item surveyed. Copies of Pre-construction Condition Survey Reports must be provided to the relevant owners of the items surveyed in the vicinity of the proposed work, and no later than one (1) month before the commencement of the work that could impact on the subject surface / subsurface structure	Applicable
MCoA	Condition Survey	D45	Condition surveys of all items for which condition surveys were undertaken in accordance with Condition D44 must be undertaken by a suitably qualified and experienced person after completion of the work identified in Condition D44 . The results of the surveys must be documented in a Post-construction Condition Survey Report for each item surveyed. Copies of Post-construction Condition Survey Reports must be provided to the landowners of the items surveyed, and no later than three (3) months following the completion of the work that could impact on the subject surface / subsurface structure unless otherwise agreed by the Planning Secretary.	Applicable
MCoA	Condition Survey	D46	The Proponent, where liable, must rectify any property damage caused directly or indirectly (for example from vibration or from groundwater change) by the work at no cost to the owner. Alternatively, the Proponent may pay compensation for the property damage as agreed with the property owner. Rectification or compensation must be undertaken within 12 months of completion of the work identified in Condition D44 unless another timeframe is agreed with the owner of the affected surface or sub-surface structure or recommended by the IPIAP .	Applicable
MCoA	Condition Survey	D47	Appropriate equipment to monitor areas in proximity of construction sites and the tunnel route during construction must be installed with particular reference to at risk buildings, structures and utilities identified in the condition surveys required by Condition D44 and / or geotechnical analysis as required. If monitoring during construction indicates exceedance of predicted impacts identified in the documents in Condition A1 or determined through geotechnical analysis, then all construction affecting settlement must cease immediately if it is safe to do so and must not resume until fully rectified or a revised method of construction is established that will ensure protection of affected buildings.	Applicable
MCoA	Condition Survey	D48	An Independent Property Impact Assessment Panel (IPIAP) must be established. The Planning Secretary must be informed of the members of the IPIAP and the IPIAP must comprise geotechnical and engineering experts independent of the design and construction team. The IPIAP will be responsible for independently verifying condition surveys undertaken under Conditions D44 and D45 , the resolution of property damage disputes and the establishment of ongoing settlement monitoring requirements.	Applicable
MCoA	Condition Survey	D49	Either the affected property owner or the Proponent may refer unresolved disputes arising from potential and/or actual property impacts to the IPIAP for resolution. All costs incurred in the establishing and implementing of the panel must be borne by the Proponent regardless of which party makes a referral to the IPIAP . The findings and recommendations of the IPIAP are final and binding on the Proponent.	Applicable
MCoA	Condition Survey	D50	Settlement monitoring must be extended if directed so by the IPIAP following its review of the monitoring data from the period not less than six (6) months after settlement has stabilised, consistent with Condition D47 . The results of the monitoring must be made available to the Planning Secretary upon request.	Applicable
MCoA	SOCIAL	D51	Adverse social impacts as a result of the CSSI must be minimised and managed, and social benefits enhanced in accordance with the <i>Social Impact Assessment Guideline</i> (Department of Planning, Industry and Environment, November 2021) .	Applicable
MCoA	Community Communications Strategy(s)	D52	Community Communications Strategy(s) must be prepared in accordance with the Overarching Community Communication Strategy as provided in the documents listed in Condition A1 and must: (a) identify affected communities, including vulnerable or marginalised groups; (b) include specific and proportionate measures and mitigations to manage impacts identified in section 4.3 (as relevant) of the Social Impact Assessment Guideline (Department of Planning, Industry and Environment, November 2021) and enhance positive social outcomes; (c) support the implementation of the Community Benefits Plan(s) as required under Condition D53; (d) be informed by engagement with directly affected communities and stakeholders; and (e) consider cumulative impacts at each site, as relevant. The Community Communication Strategy(s) must be submitted to the Planning Secretary for information before construction. The Community Communication Strategy(s) must be implemented for the duration of construction. The CCS(s) must be monitored and reviewed in accordance with the OCCS, including consideration of the appropriateness of mitigation measures and lessons learnt.	Applicable

Scope:	Sydney Metro West			
Approval Name:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package			
Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Community Benefit Plan(s)	D53	A Community Benefit Plan(s) (CBP) must be prepared by suitably qualified and experienced person(s), to guide the delivery of measures identified in the documents listed in Condition A1 of this schedule relating to social impacts and the development of community benefit initiatives to deliver tangible benefits. The CBP(s) must aim to: (a) make a positive contribution to the potentially affected community including vulnerable and marginalised groups; (b) respond to community priorities and needs; (c) create positive community or environmental outcomes; and (d) prioritise consideration of achieving outcomes for enhancing community character, community culture, community wellbeing and the local surroundings. The CBP(s) must include a community benefit initiative impact register to monitor, review, and report on the effectiveness of the plan(s). The CBP(s) must review and refine the social impacts, risks and mitigations in the documents listed in Condition A1, including impacts identified in section 4.3 (as relevant) of the Social Impact Assessment Guideline (Department of Planning, Industry and Environment, November 2021) Nothing in this condition prevents the preparation of individual Community Benefit Plan(s) for each station precinct. The Community Benefit Plan(s) must be submitted to the Planning Secretary for information, before construction. The Community Benefit Plan(s) must be implemented for the duration of construction. The community benefit initiative impact register must be provided to the Planning Secretary upon request.	Applicable
MCoA	BUSINESS Small Business Owners Engagement Plan(s)	D54	Small Business Owners Engagement Plan(s) must be prepared and implemented in accordance with the Overarching Community Communication Strategy to minimise adverse impacts and secure benefits to businesses and traders on streets and underground pedestrian access affected by construction of the CSSI. The Plan(s) must include but not necessarily be limited to: (a) measures to address amenity, vehicular and pedestrian access (including wayfinding) and visibility of the business or service appropriate to its reliance on such, and other reasonable matters raised in consultation with affected businesses and traders; (b) measures to address impacts from the permanent closure of DeMastre Place and temporary closure of the underground pedestrian walkway between Wynyard Station and Pitt Street; (c) measures to assist small businesses adversely impacted by construction of the CSSI, such as small business education and mentoring, activation events, business engagement events, marketing and promotion. The Plan(s) must be prepared and submitted to the Planning Secretary for information before construction at the relevant construction site. The Plan(s) must be monitored and reviewed in accordance with the Overarching Community Communication Strategy.	Applicable
MCoA	SOILS AND CONTAMINATION Soils	D55	Prior to the commencement of any ground disturbance, erosion and sediment controls must be installed and maintained, in accordance with the publication <i>Managing Urban Stormwater: Soils & Construction</i> (4th edition, Landcom 2004) commonly referred to as the 'Blue Book'.	Applicable
MCoA	Contamination	D56	A NSW EPA-accredited Site Auditor must be engaged throughout the duration of works to ensure that any work required in relation to contamination is appropriately managed.	Applicable
MCoA	Contamination	D57	A Sampling and Analysis Quality Plan (SAQP) must be prepared for medium and high risk sites as identified in the documents referred to in Condition A1 to ensure that field investigations and analyses will be undertaken in a way that enables the collection and reporting of reliable data to meet project objectives, including (where applicable) the relevant site characterisation requirements of the detailed or targeted site investigations. The SAQP must: (a) be prepared (or reviewed and approved) by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme; (b) be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the <i>Contaminated Land Management Act 1997</i>; and (c) be reviewed by a NSW EPA accredited Site Auditor. The Site Auditor must issue interim audit advice stating whether they consider the SAQP to be appropriate. The SAQP and the interim audit advice prepared by a Site Auditor must be submitted to the Planning Secretary for information.	Applicable
MCoA	Contamination	D58	Detailed Site Investigations to confirm moderate and high risk contaminated sites identified in Preliminary Site Investigation in Condition A1 must be prepared, or reviewed and approved by a Contaminated Land Consultant certified under either the Environment Institute of Australia or New Zealand's "Certified Environmental Practitioner" (Site Contamination) scheme (CEnvP(SC)) or the Soil Science Australia "Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme. The Detailed Site Investigations must be undertaken before ground disturbance in areas identified in the documents under Condition A1 as moderate to high risk	Applicable

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MCoA	Contamination	D59	A Detailed Site Investigation Report must be prepared and submitted to the Planning Secretary for information following the completion of Detailed Site Investigations required by Condition D58 and: (a)be prepared (or reviewed and approved) by a Contaminated Land Consultant certified under either the Environment Institute of Australia or New Zealand's "Certified Environmental Practitioner" (Site Contamination) scheme (CenvP(SC)) or the Soil Science Australia "Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme; (b)be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the <i>Contaminated Land Management Act 1997</i> (NSW); and (c)be reviewed by a NSW EPA-accredited Site Auditor. The Site Auditor must issue interim audit advice stating whether the DSI appropriately categorises risk and remediation requirements. The Detailed Site Investigation Report and interim audit advice must be submitted to the Planning Secretary for information. Nothing in this condition prevents the Proponent from preparing individual Site Contamination Reports for separate sites.	Applicable
MCoA	Contamination	D60	If remediation is required to make land suitable for the intended land use, a Remedial Action Plan must: (a)be prepared (or reviewed and approved) by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CenvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme; and (b)be prepared in accordance with relevant guidelines made or approved by the EPA under section 105 of the <i>Contaminated Land Management Act 1997</i> ; (c)include measures to remediate the contamination at the site to ensure the site will be suitable for the proposed use and detail how the environmental and human health risks will be managed during the disturbance, remediation and/or removal of contaminated soil/sediment or groundwater; and (d)be reviewed by a NSW EPA-accredited Site Auditor. The Site Auditor must issue a Section B Site Audit Statement or interim audit advice which certifies that the Remedial Action Plan is appropriate to remediate identified contamination. Nothing in this condition prevents the preparation of individual Remedial Action Plans for separate sites.	Applicable
MCoA	Contamination	D61	Before commencing remediation, a copy of the Remedial Action Plan and the Section B Site Audit Statement , or interim audit advice , must be submitted to the Planning Secretary for information	Applicable
MCoA	Contamination	D62	The Remedial Action Plan must be implemented and changes to the Remedial Action Plan must be approved in writing by the NSW EPA accredited Site Auditor. A copy of the revised Remedial Action Plan must be provided to the Planning Secretary for information. Nothing in this condition prevents the Proponent from engaging the Site Auditor to prepare Site Audit Statements for separate sites.	Applicable
MCoA	Contamination	D63	A Section A1 or A2 Site Audit Statement (accompanied by an Environmental Management Plan) and its accompanying Site Audit Report, which state the contaminated land subject to the Remedial Action Plan has been made suitable for the intended land use, must be submitted to the Planning Secretary and Council after remediation and before the commencement of operation of the CSSI. Nothing in this condition prevents the Proponent from obtaining Section A Site Audit Statements for individual parcels of remediated land.	Applicable
MCoA	Contamination	D64	Contaminated land must not be used for the purpose approved under the terms of this approval until a Section A1 or A2 Site Audit Statement is obtained which states that the land is suitable for that purpose and any conditions on the Section A Site Audit Statement have been complied with.	Applicable
MCoA	Contamination	D65	An Unexpected Finds Procedure for Contamination must be prepared before the commencement of construction and implemented throughout construction. The procedure must: (a)be followed should unexpected contamination or asbestos (or suspected contamination) be excavated or otherwise discovered; (b)include details of who will be responsible for implementing the unexpected finds procedure and the roles and responsibilities of all parties involved; and (c)be prepared, (or reviewed and approved), by consultants certified under either the Environment Institute of Australia and New Zealand's Certified Environmental Practitioner (Site Contamination) scheme (CenvP(SC)) or the Soil Science Australia Certified Professional Soil Scientist Contaminated Site Assessment and Management (CPSS CSAM) scheme.	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	SUSTAINABILITY	D66	A Water Reuse Strategy must be prepared, which sets out options for the reuse of collected stormwater and groundwater during the CSSI. The Water Reuse Strategy must include, but not be limited to: (a)evaluation of reuse options; (b)details of the preferred reuse option(s), including volumes of water to be reused, proposed reuse locations and/or activities, proposed treatment (if required), and any additional licences or approvals that may be required; (c)measures to avoid misuse of recycled water as potable water; (d)consideration of the public health risks from water recycling; and (e)time frame for the implementation of the preferred reuse option(s). The Water Reuse Strategy must be prepared based on best practice and advice sought from relevant agencies, as required. The Strategy must be applied during construction. Justification must be provided to the Planning Secretary if it is concluded that no reuse options prevail. A copy of the Water Reuse Strategy must be made publicly available. Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction phases of the CSSI.	Applicable
MCoA	TRAFFIC AND TRANSPORT	D67	Access to all utilities and affected properties must be maintained where practicable, unless otherwise agreed with the relevant utility owner, landowner or occupier.	Applicable
MCoA	TRAFFIC AND TRANSPORT	D68	Any property access physically affected by the CSSI must be reinstated to at least an equivalent standard, unless otherwise agreed by the landowner or occupier.	Applicable
MCoA	TRAFFIC AND TRANSPORT	D69	During construction of the CSSI, all reasonably practicable measures must be implemented to maintain pedestrian, cyclist and vehicular access to, and parking in the vicinity of affected businesses / traders. Disruptions are to be avoided, and where avoidance is not possible, minimised. Where disruption cannot be minimised, alternative pedestrian and vehicular access, and parking arrangements must be developed in consultation with affected businesses / traders and relevant Councils and implemented prior to the disruption. Adequate signage and directions to businesses must be provided before, and for the duration of, any disruption.	Applicable
MCoA	TRAFFIC AND TRANSPORT	D70	Construction vehicles (including light vehicles) must not use Robert Street, Rozelle to access The Bays metro station construction site, unless required in the event of an emergency situation.	Applicable
MCoA	TRAFFIC AND TRANSPORT	D71	The locations of all heavy vehicles used for spoil haulage for the CSSI must be monitored in real time and the records of monitoring be made available electronically to the Planning Secretary and the EPA upon request for a period of no less than one (1) year following the completion of construction.	Applicable
MCoA	TRAFFIC AND TRANSPORT	D72	Construction Traffic Management Plans (CTMPs) must be prepared in accordance with the Construction Traffic Management Framework. A copy of the CTMPs must be submitted to the Planning Secretary for information before the commencement of any construction in the area identified and managed within the relevant CTMP .	Applicable
MCoA	TRAFFIC AND TRANSPORT	D73	Local roads proposed to be used by heavy vehicles to directly access construction sites that are not identified in the documents listed in Condition A1 must be approved by the Planning Secretary and be included in the CTMPs .	Applicable
MCoA	TRAFFIC AND TRANSPORT	D74	All requests to the Planning Secretary under Condition D73 must include the following: (a)a swept path analysis; (b)demonstration that the use of local roads by heavy vehicles for the CSSI will not compromise the safety of pedestrians and cyclists or the safety of two-way traffic flow on two-way roadways; (c)details as to the date of completion of the road dilapidation surveys for the subject local roads; (d)measures that will be implemented to avoid where practicable the use of roads past schools, aged care facilities and child care facilities during their peak operation times; and (e)written advice from an appropriately qualified professional on the suitability of the proposed heavy vehicle route which takes into consideration items (a) to (d) of this condition.	Applicable
MCoA	Road Dilapidation	D75	Prior to any local road being used by a heavy vehicle for the purposes of construction of the CSSI, a Road Dilapidation Report must be prepared for the road. A copy of the Road Dilapidation Report must be provided to the relevant council within three (3) weeks of completion of the survey and at no later than one (1) month before the road being used by heavy vehicles associated with the construction of the CSSI.	Applicable
MCoA	Road Dilapidation	D76	If damage to roads occurs as a result of the construction of the CSSI, the Proponent must either (at the relevant council's discretion): (a)compensate the relevant council for the damage so caused; or (b)rectify the damage to restore the road to at least the condition it was in pre-work as identified in the Road Dilapidation Report.	Applicable
MCoA	Construction Parking and Access Management	D77	All vehicles associated with the CSSI (including light vehicles and heavy vehicles) must be managed to: (a)minimise parking on public roads; (b)minimise idling and queueing on state and regional roads; (c)not carry out marshalling of construction vehicles near sensitive land user(s); (d)not block or disrupt access across pedestrian or shared user paths at any time unless alternative access is provided; and (e)ensure spoil haulage vehicles adhere to the nominated haulage routes identified in the CTMPs.	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Construction Parking and Access Management	D78	A Construction Parking and Access Strategy must be prepared to identify and mitigate impacts resulting from on- and off-street parking changes during construction of the CSSI. The Construction Parking and Access Strategy must include, but not necessarily be limited to: (a) achieving the requirements of Condition D77 above; (b) confirmation and timing of the removal of on- and off-street parking associated with construction of the CSSI; (c) parking surveys of all parking spaces to be removed or occupied by the project workforce to determine current demand during peak, off-peak, school drop off and pickup, weekend periods and during special events; (d) consultation with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction; (e) assessment of the impacts to on- and off-street parking stock taking into consideration, outcomes of consultation with affected stakeholders and considering the impacts of special events; (f) identification of reasonable and practicable mitigation measures to manage impacts to stakeholders as a result of on- and off-street parking changes including, but not necessarily limited to, staged removal and replacement of parking, provision of alternative parking arrangements, managed staff parking arrangements and working with relevant council(s) to introduce parking restrictions adjacent to work sites and compounds or appropriate residential parking schemes; (g) where residential parking schemes already exist, off-road parking facilities must be provided for the project workforce; (h) mechanisms for monitoring, over appropriate intervals (not less than 6 months), to determine the effectiveness of implemented mitigation measures; (i) details of shuttle bus service(s) to transport the project workforce to construction sites from public transport hubs and off-site car parking facilities (where these are provided) and between construction sites; (j) provision of contingency measures should the results of mitigation or monitoring indicate implemented measures are ineffective; and (k) provision of reporting of monitoring results to the Planning Secretary and relevant Councils at six (6) monthly intervals. The Construction Parking and Access Strategy must be submitted to the Planning Secretary for approval at least one (1) month prior to the commencement of any construction that reduces the availability of existing parking. The approved Construction P.arking and Access Strategy must be implemented before and during construction that impact parking and incorporated into the CTMPs.	Applicable
MCoA	Road Safety	D79	A Traffic and Transport Liaison Group(s) must be established before construction in accordance with the Construction Traffic Management Framework to inform the development of CTMPs .	Applicable
MCoA	Road Safety	D80	Supplementary analysis and modelling as required by TfNSW and / or the Traffic and Transport Liaison Group(s) must be undertaken to demonstrate that construction and operational traffic can be managed to minimise disruption to traffic network operations including changes to and the management of pedestrian, bicycle and public transport networks, public transport services, and pedestrian and cyclist movements. Revised traffic management measures must be incorporated into the CTMPs .	Applicable
MCoA	Road Safety	D81	Permanent road works, including vehicular access, signalised intersection works, and works relating to pedestrians, cyclists, and public transport users must be subject to safety audits demonstrating consistency with relevant design, engineering and safety standards and guidelines. Safety audits must be prepared in consultation with the relevant Traffic and Transport Liaison Group before the completion and use of the subject infrastructure and must be made available to the Planning Secretary upon request.	Applicable
MCoA	Pedestrian and Cyclist Access	D82	Safe pedestrian and cyclist access must be maintained and signposted around CSSI construction sites during construction, including during the operation of festivals and special events, in accordance with the CTMPs. <i>Note: Pedestrian and cyclist access around construction sites must be as direct as reasonably practicable.</i>	Applicable
MCoA	Emergency Vehicle Access	D83	The Proponent must maintain emergency vehicle access, in consultation with TfNSW, relevant Councils and emergency services at all times throughout the CSSI. Measures must be outlined in the Construction Parking and Access Strategy required under Condition D78 above.	Applicable
MCoA	UTILITIES MANAGEMENT	D84	Utilities, services and other infrastructure potentially affected by construction must be identified before works affecting the item, to determine requirements for access to, diversion protection, and / or support. The relevant owner(s) and / or provider(s) of services must be consulted to make suitable arrangements for access to diversion, protection, and / or support of the affected infrastructure as required. The Proponent must ensure that disruption to any service is minimised and be responsible for advising local residents and businesses affected before any planned disruption of service.	Applicable
MCoA	Utility Coordination Manager	D85	A Utility Coordination Manager must be appointed for the duration of work associated with the CSSI. The role of the Utility Coordination Manager must include, but not be limited to: (a) the management and coordination of all utility work associated with the delivery of the CSSI, to ensure respite is provided to the community; (b) providing advice to the Sydney Metro Place Manager regarding upcoming utility work, including the scope of the work and the responsibility for the work; and (c) investigating complaints received from the Community Complaints Mediator or the Project communication team relating to utility work and providing a response as required.	Applicable
MCoA	URBAN DESIGN AND VISUAL AMENITY Ancillary Facilities	D86	Wayfinding information must be incorporated on temporary hoardings to guide pedestrians around ancillary facilities and enhance their understanding and experience of the locality and space.	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	ETP allocation
MCoA	Ancillary Facilities	D87	Nothing in this approval permits commercial advertising on any element of the CSSI.	Applicable
MCoA	Lighting and Security	D88	The CSSI must be constructed with the objective of minimising light spill to surrounding properties including from headlights of construction vehicles. All lighting associated with the construction of the CSSI must be consistent with the requirements of <i>Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting</i> and relevant Australian Standards in the series <i>AS/NZ 1158 – Lighting for Roads and Public Spaces</i> . Additionally, mitigation measures must be provided to manage any residual night lighting impacts to protect properties adjoining or adjacent to the CSSI, in consultation with affected landowners.	Applicable
MCoA	Visual Amenity	D89	The CSSI must be constructed in a manner that minimises visual impacts of construction sites including, providing temporary landscaping and vegetative screening, minimising light spill, minimising impacts to identified significant view lines and incorporating architectural treatment and finishes within key elements of temporary structures that reflect the context within which the construction sites are located, wherever practicable.	Applicable
MCoA	WASTE	D90	Waste generated during construction and operation must be dealt with in accordance with the following priorities: (a)waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced; (b)where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and (c)where re-using, recycling or recovering waste is not possible, waste must be treated or disposed of.	Applicable
MCoA	WASTE	D91	The importation of waste and the storage, treatment, processing, reprocessing or disposal of such waste must comply with the conditions of the current EPL for the CSSI, or be done in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , as the case may be.	Applicable
MCoA	WASTE	D92	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , or to any other place that can lawfully accept such waste.	Applicable
MCoA	WASTE	D93	All waste must be classified in accordance with the EPA's <i>Waste Classification Guidelines</i> , with appropriate records and disposal dockets retained for audit purposes.	Applicable
MCoA	WATER	D94	Work on waterfront land must be carried out in accordance with controlled activity guidelines.	Applicable
MCoA	Water Quality	D95	The CSSI must be designed and constructed so as to maintain the <i>NSW Water Quality Objectives</i> (NSW WQO) where they are being achieved as at the date of this approval, and contribute towards achievement of the NSW WQO over time where they are not being achieved as at the date of this approval, unless an EPL in force in respect of the CSSI contains different requirements in relation to the NSW WQO, in which case those requirements must be complied with.	Applicable
MCoA	Water Quality	D96	Unless an EPL is in force in respect to the CSSI and that licence specifies alternative criteria, discharges from wastewater treatment plants to surface waters must not exceed: (a)the <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2018</i> (ANZG (2018)) default guideline values for toxicants at the 95 per cent species protection level; (b)for physical and chemical stressors, the guideline values set out in Tables 3.3.2 and 3.3.3 of the <i>Australian and New Zealand Guidelines for Fresh and Marine Water Quality 2000</i> (ANZECC/ARMCANZ) (c)for bioaccumulative and persistent toxicants, the ANZG (2018) guidelines values at a minimum of 99 per cent species protection level; and (d)the draft <i>Australian and New Zealand Guidelines</i> default guideline values for iron (marine). Where the ANZG (2018) does not provide a default guideline value for a particular pollutant, the approaches set out in the ANZG (2018) for deriving guideline values, using interim guideline values and/or using other lines of evidence such as international scientific literature or water quality guidelines from other countries, must be used.	Applicable
MCoA	Water Quality	D97	If alternative discharge criteria from the Water Treatment Plants are proposed via an EPL, a Water Pollution Impact Assessment will be required for the relevant pollutants to inform licensing consistent with section 45 of the POEO Act. Any such assessment must be prepared in consultation with the EPA and be consistent with the National Water Quality Guidelines, with a level of detail commensurate with the potential water pollution risk.	Applicable
MCoA	Water Quality	D98	If construction stage stormwater discharges are proposed, a Water Pollution Impact Assessment will be required to inform licensing consistent with section 45 of the POEO Act. Any such assessment must be prepared in consultation with the EPA and be consistent with the National Water Quality Guidelines, with a level of detail commensurate with the potential water pollution risk.	Applicable
MCoA	Water Quality	D99	Drainage feature crossings (permanent and temporary watercourse crossings and stream diversions) and drainage swales and depressions must be carried out in accordance with relevant guidelines and designed by a suitably qualified and experienced person.	Applicable
MCoA	Groundwater	D100	Make good provisions for groundwater users must be provided in the event of a material decline in water supply levels, quality or quantity from registered existing bores associated with groundwater changes from construction dewatering by the CSSI in accordance with the <i>NSW Aquifer Interference Policy</i> (NSW DPIE, 2012).	Applicable

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MCoA	Groundwater	D101	The Proponent must submit a revised Groundwater Modelling Report in association with the CSSI to the Planning Secretary for information before bulk excavation at the relevant construction location. The Groundwater Modelling Report must include: (a)for each construction site where excavation will be undertaken, cumulative (additive) impacts from nearby developments, parallel transport projects and nearby excavation associated with the CSSI; (b)predicted incidental groundwater take (dewatering) including cumulative project effects; (c)potential impacts of the CSSI or detail and demonstrate why the CSSI will not have lasting impacts to the groundwater system, groundwater incidental take and groundwater level drawdown effects; (d)actions required to minimise the risk of inflows; (e)saltwater intrusion modelling analysis, from estuarine and saline groundwater in shale, into Pyrmont construction site and other relevant metro station sties; and (f)a schematic of the conceptual hydrogeological model.	Applicable

7 Appendix C – Applicability of SMW REMM to each Phase for Stage 2

Project:	Sydney Metro West				
EIS:	SSI19238057 - SMW Stage 2 - Eastern Tunnelling Package				
Condition Type	Condition Classification	Condition Reference	Description	Location	ETP allocation
REMM	Changes to the network	TT1	The community would be notified in advance of proposed road and pedestrian network changes through appropriate forms of community liaison.	All	Applicable
REMM	Traffic Incidents	TT2	In the event of a traffic related incident, coordination would be carried out with Transport for NSW.	All	Applicable
REMM	Emergency vehicles access	TT3	Access to properties for emergency vehicles would be provided at all times.	All	Applicable
REMM	Road Safety	TT4	Vehicle access to and from construction sites would be managed to maintain pedestrian, cyclist and motorist safety. Depending on the location, this may require manual supervision, physical barriers, temporary traffic signals and modifications to existing signals or, on occasions, police presence.	All	Applicable
REMM	Road safety	TT5	Additional enhancements for pedestrian, cyclist and motorist safety near the construction sites would be implemented during construction. This would include measures such as: - Assessing the suitability of construction haulage routes through sensitive land use areas with respect to road safety - Deployment of speed awareness signs in conjunction with variable message signs near construction sites to provide alerts to drivers - Providing community education and awareness about sharing the road safely with heavy vehicles - Specific construction driver training to understand route constraints, safety and environmental considerations such as sharing the road safely with other road users and limiting the use of compression braking - Road safety audits will be carried out in support of Construction Traffic Management Plans Traffic Guidance Schemes on Traffic Control Plans in line with the requirements of the Construction Traffic Management Framework, and identified road safety risks will be removed or reduced so far as is reasonably practicable. - Requiring technology and equipment to improve vehicle safety, eliminate heavy vehicle blind spots, and monitor vehicle location and driver behaviour.	All	Applicable
REMM	Road safety	TT6	All trucks would enter and exit construction sites in a forward direction, where feasible and reasonable.	All	Applicable
REMM	Congestion	TT7	Construction site traffic would be managed to minimise movements during peak periods.	All	Applicable
REMM	Congestion	TT8	Construction site traffic would be managed to minimise vehicle movements through school zones during pick up and drop off times.	All	Applicable
REMM	Loss of parking	TT9	Construction sites would be managed to minimise the number of construction workers parking on surrounding streets by: - Encouraging workers to use public or active transport - Encouraging ride sharing - Provision of alternative parking locations and shuttle bus transfers where feasible and reasonable.	All	Applicable
REMM	Change of bus stop locations	TT10	Any temporary closure or relocation of bus stops would be carried out in consultation with Transport for NSW, the relevant local council and bus operators. Wayfinding and customer information would be provided to notify customers of relocated bus stops.	All	Applicable
REMM	Taxi relocation	TT11	Any relocation of taxi ranks would be carried out in consultation with Transport for NSW, the relevant local council and taxi operators. Wayfinding and customer information would be provided to notify customers of relocated taxi ranks.	Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Property access	TT12	Access to existing properties and buildings not required or demolished by the proposal would be maintained in consultation with property owners.	All	Applicable
REMM	Construction vehicle impacts	TT13	Adjustments to site access arrangements and the local road network would be explored during detailed design to minimise conflicts with heavy vehicle movements.	Pymont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Cumulative construction traffic impacts	TT14	Co-ordination of traffic management arrangements between major construction projects would occur in consultation with Transport for NSW.	The Bays tunnel launch and support site Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Impacts on special events	TT15	During major special events, impacts to the transport and traffic network would be reduced by (as necessary): - Minimising the level of construction activity, and if necessary, ceasing all construction activity - Maintaining appropriate access to all areas within the event precinct - Erection of hoardings, site fencing and gates at key locations within the construction site boundary to permit pedestrian movements adjacent to the construction site and separate pedestrians from construction vehicles - Scheduling deliveries to the construction site outside of event periods.	Pymont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Mitigating light rail and bus precinct impacts	TT16	In consultation with Transport for NSW and the City of Sydney, options will be considered to mitigate light rail and bus precinct impacts. This would include consideration of road space reallocation on the western part of Hunter Street to manage through traffic into Hunter Street from George Street / Margaret Street.	Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Impacts on emergency services	TT17	Emergency services would be consulted about proposed road network changes during construction. The potential for minimising the disruption to emergency services as a result of this proposal would be further investigated during detailed construction planning.	All	Applicable

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Condition Type	Condition Classification	Condition Reference	Description	Location	ETP allocation
REMM	Community preference for noise mitigation and management	NV01	Where justified by the application of the Construction Noise and Vibration Standard, further engagement and consultation would be carried out in accordance with the Sydney Metro Overarching Community Communications Strategy with: - The affected communities to understand their preferences for mitigation and management measures 'Other sensitive' receivers such as schools, medical facilities, theatres, or places of worship to understand periods in which they are more sensitive to impacts. Based on this consultation, appropriate mitigation and management options would be considered and implemented where feasible and reasonable to minimise the impacts.	All	Applicable
REMM	Alternative construction methodologies	NV02	Alternative construction methodologies and measures that minimise noise and vibration levels during noise intensive work would be investigated and implemented where feasible and reasonable. This would include consideration of: - The use of hydraulic concrete shears in lieu of hammers/rock breakers - Sequencing work to shield noise sensitive receivers by retaining building wall elements - Locating demolition load out areas away from the nearby noise sensitive receivers - Providing respite periods to minimise impacts from prolonged periods of noise intensive work - Minimising structural-borne noise to adjacent buildings including separating the structural connection prior to demolition through saw-cutting and propping, using hand held splitters and pulverisers or hand demolition - Installing sound barrier screening to scaffolding facing noise sensitive neighbours - Using portable noise barriers around particularly noisy equipment, such as concrete saws - Modifying demolition work sequencing/hours to minimise impacts during peak pedestrian times and/or adjoining neighbour outdoor activity periods.	All	Applicable
REMM	Construction noise – respite periods	NV03	Appropriate respite would be provided to affected receivers in accordance with the Sydney Metro Construction Noise and Vibration Standard. This would include consideration of impacts from utility and power supply work when determining appropriate respite periods for affected receivers. When determining appropriate respite, the need to efficiently undertake construction would be balanced against the communities' preferred noise and vibration management approach.	All	Applicable
REMM	Construction noise – out of hours work	NV04	The use of noise intensive equipment at construction sites with 'moderate' and 'high' out of hours noise management level exceedances would be scheduled for standard construction hours, where feasible and reasonable. Where this is not feasible and reasonable, the work would be undertaken as early as possible in each work shift.	All	Applicable
REMM	Night-time noise impacts	NV05	Where practicable, air brake silencers would be used on heavy vehicles that access construction sites multiple times per night or over multiple nights.	All	Applicable
REMM	Night-time noise impacts	NV06	Perimeter site hoarding would be designed with consideration of on-site heavy vehicle movements with the aim of minimising sleep disturbance impacts.	All	Applicable
REMM	Noise emissions from equipment	NV07	Long term construction site support equipment and machinery would be low noise emitting and suitable for use in residential areas, where feasible and reasonable. Examples include: - Low noise water pumps for use in water treatment facilities - Low noise generators and compressors - Low noise air conditioner units for use of amenities buildings.	All	Applicable
REMM	Acoustic sheds	NV08	- Where acoustic sheds are installed, the internal lining and construction materials would be determined during later design stages to ensure appropriate attenuation is provided. This design of sheds would likely include the following considerations: All significant noise producing equipment that would be used during the night-time would be inside the shed, where feasible and reasonable - Noise generating ventilation systems such as compressors, scrubbers, etc, would also be inside the shed and external air intake/discharge ports would be appropriately acoustically treated - Acoustic shed doors would be kept closed during the night-time period, where feasible and reasonable. Where night-time vehicle access is required, the doors would be designed and constructed to minimise noise breakout.	All	Applicable
REMM	Ground-borne noise	NV09	Feasible and reasonable measures would be implemented to minimise ground-borne noise where exceedances are predicted. This may require implementation of less ground-borne noise and less vibration intensive alternative construction methodologies.	All	Applicable
REMM	Ground-borne noise – cross passages	NV10	The proximity of cross passages to nearby receivers and the corresponding construction ground-borne noise and vibration impacts during the excavation work would be considered when determining locations. Relocation of cross passages to be further away from sensitive receivers to mitigate potential construction impacts would be considered, where feasible and reasonable.	Metro rail tunnels	Applicable
REMM	Ground-borne noise – underground rockbreaking	NV11	Activity specific Detailed and/or General Noise and Vibration Impact Statement (in accordance with the requirements of the Construction Noise and Vibration Standard) would be developed for rockbreaking in the tunnel and at cross passages, specifically addressing the activity where it is required between 10pm - 7am.	Metro rail tunnels	Applicable
REMM	Construction traffic noise	NV12	Further assessment of construction traffic would be completed during detailed design, including consideration of the potential for exceedances of the NSW Road Noise Policy base criteria (where greater than two dB increases are predicted). The potential impacts would be managed using the following approaches, where feasible and reasonable: - On-site spoil storage capacity would be maximised to reduce the need for truck movements during sensitive times - Vehicle movements would be redirected away from sensitive receiver areas and scheduled during less sensitive times - The speed of vehicles would be limited, and the use of engine compression brakes would be avoided - Heavy vehicles would not be permitted to idle near sensitive receivers.	All	Applicable
REMM	Construction vibration	NV13	Where vibration levels are predicted to exceed the screening criteria, a more detailed assessment of the structure (in consultation with a structural engineer) and vibration monitoring would be carried out to ensure vibration levels remain below appropriate limits for that structure. For heritage items, the more detailed assessment would specifically consider the heritage values of the structure in consultation with a heritage specialist to ensure sensitive heritage fabric is adequately monitored and managed.	All	Applicable

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REMM	Building condition surveys – construction vibration	NV14	Condition surveys of buildings and structures near to the tunnel and excavations would be undertaken prior to the commencement of excavation at each site, where appropriate. For heritage buildings and structures the surveys would consider the heritage values of the structure in consultation with a heritage specialist.	All	Applicable
REMM	Cumulative construction noise impacts	NV15	The likelihood of cumulative construction noise impacts would be reviewed during detailed design when detailed construction schedules are available. Co-ordination would occur between potentially interacting projects to minimise concurrent or consecutive work in the same areas, where possible. Specific mitigation strategies would be developed to manage impacts. Depending on the nature of the impact, this could involve adjustments to construction program or activities of Sydney Metro West or of other construction projects.	All	Applicable
REMM	Archival recording	NAH1	Archival recording and reporting of the following heritage items would be carried out in accordance with the NSW Heritage Office's How to Prepare Archival Records of Heritage Items (1998), and Photographic Recording of Heritage Items Using Film or Digital Capture (2006): • Former Skinners Family Hotel (SHR item no. 00584) • NSW Club House Building (SHR item no. 00145) • Former Bank – Delfin House (SLEP 2012 item no. I1903) • Richard Johnson Square (SLEP 2012 item no. I1673). Archival recording should be carried out at the following sites as potential heritage items of local significance prior to the commencement of work for the following items: • Gilbey's Distillery, 26-32 Pyrmont Bridge Road, Pyrmont (potential archaeological site and local heritage item) • Pangas House, 15-17 Hunter Street, Sydney (potential local heritage item).	Pyrmont Station western construction site Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Investigations	NAH2	Investigations would be carried out for the Tank Stream (SHR item no. 00636) and Bennelong Stormwater Channel No. 29A (Sydney Water s170 item no. 4570854) to confirm and record the location, depth, and ascertain the current integrity, extent and condition of the heritage items. Surveys are to be carried out under the supervision of a heritage consultant in consultation with Sydney Water.	Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Demolition	NAH3	A method for the demolition of existing buildings and/or structures at specified construction site would be developed to minimise direct and indirect impacts to adjacent and/or adjoining heritage items. A structural engineering investigation would be carried out to heritage items, prior to demolition of adjacent existing buildings and/or structures to ensure the conservation of the items fabric and significance. A detailed methodology for the protection of the Former Skinners Family Hotel, Tank Stream and Bennelong Stormwater Channel No.29A would be developed by suitably qualified heritage engineers and consultants.	Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Salvage	NAH4	Prior to commencement of demolition of Gilbey's Distillery, significant heritage fabric which has a reuse in the project or elsewhere would be identified and considered for salvage. significance of fabric would be assessed and opportunities for reuse would be considered. Where fabric is identified for salvage, a methodology would be prepared in consultation with Heritage NSW.	Pyrmont Station western construction site	Applicable
REMM	Heritage interpretation	NAH5	Heritage Interpretation Plans would be prepared in accordance with the line-wide Heritage Interpretation Strategy being prepared for Sydney Metro West.	Pyrmont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Archaeology	NAH6	An Archaeological Research Design would be prepared to identify the excavation methodology for predicted locally significant non-Aboriginal archaeological resources at the Pyrmont Station and Hunter Street Station (Sydney CBD) construction sites. Archaeological mitigation measures recommended in the Archaeological Research Design would be carried out in accordance with Heritage NSW guidelines, and where appropriate, supervised by a suitably qualified Excavation Director with experience in managing State significant archaeology.	Pyrmont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Archaeology	NAH7	An Archaeological Excavation Report would be prepared by the Excavation Director and be provided to the Heritage NSW within 12 months of the completion of archaeological excavations specified in the Archaeological Research Design.	Pyrmont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Ground movement and settlement assessment	NAH8	Where required, further assessments at later design stages and during detailed construction planning would be carried out to check the preliminary findings of the ground movement assessment in relation to listed heritage buildings. Other listed heritage infrastructure would also be subject to such further assessment of ground movement where identified as being required in Technical Paper 3 (Non-Aboriginal heritage).	Pyrmont Station construction sites Hunter Street Station (Sydney CBD) construction sites Tunnel alignment	Applicable
REMM	Monitoring	NAH9	Where required, heritage items identified by NAH8 as requiring further assessment should undergo instrumentation and monitoring as part of further assessments and during the work.	Pyrmont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Consultation	AH1	Aboriginal stakeholder consultation for this proposal should continue based on initial consultation originally commenced on major construction work between Westmead and The Bays (Stage 1 of the planning approval process for Sydney Metro West) in accordance with the NSW Office of Environment and Heritage's Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010. Additional consultation with knowledge holders about the project would be undertaken where possible.	All	Applicable

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REMM	Unexpected finds	AH2	If suspected human skeletal remains are uncovered at any time during the proposed work, procedures outlined in the Sydney Metro Exhumation Management Plan, the Sydney Metro Unexpected Heritage Finds Procedure and Heritage Management Plan would be implemented.	All	Applicable
REMM	Unexpected finds	AH3	If unexpected Aboriginal objects are identified during construction work, the Sydney Metro Unexpected Finds Procedure would be implemented.	All	Applicable
REMM	Cultural values	AH4	In recognition of potential impacts to the Aboriginal cultural values of the project area, the line-wide Heritage Interpretation Strategy for Sydney Metro West would address Aboriginal cultural values and be prepared in consultation with the local Aboriginal community, knowledge holders and with reference to the Connecting with Country framework.	All	Applicable
REMM	Intact deposits or Aboriginal objects in Method Area 2	AH5	As the Hunter Street Station (Sydney CBD) western construction site has been assessed as having the potential for intact deposits, a stage specific Archaeological Method Statement would be prepared prior to work commencing. The Archaeological Method Statement would adhere to the archaeological management measures for Method Area 2 as outlined in Technical Paper 4 (Aboriginal Cultural Heritage Assessment Report).	Hunter Street Station (Sydney CBD) western construction site	Applicable
REMM	Temporary use	LU1	Except where required for subsequent construction activities associated with future stages of the Concept, temporary use areas for construction purposes would be stabilised and appropriately rehabilitated as soon as feasible and reasonable following completion of construction. This would be carried out in consultation with the relevant landowner.	All	Applicable
REMM	Visual impacts	LV1	Where feasible and reasonable, the elements within construction sites would be located to minimise visual impacts, for example materials and machinery would be stored behind fencing.	All	Applicable
REMM	Visual impacts	LV5	The design and maintenance of construction site hoardings would aim to minimise visual amenity and landscape impacts.	All	Applicable
REMM	Visual impacts	LV7	Graffiti would be removed promptly from hoardings and any other aspects of construction sites.	All	Applicable
REMM	Visual impacts	LV8	All structures (including acoustic sheds or other acoustic measures, site offices and workshop sheds) would be finished in a colour which aims to minimise their visual impacts, if visible from areas external to the construction site. This finish is to be applied to all visible fixtures and fittings (including exposed downpipes).	All	Applicable
REMM	Lighting impacts	LV4	Lighting of construction sites would be oriented to minimise glare and light spill impacts on adjacent receivers.	All	Applicable
REMM	Visual impacts	LV6	Construction site hoardings would be designed in accordance with Sydney Metro Brand Design Guidelines and opportunities for public art on hoardings would be considered in high pedestrian locations.	All	Applicable
REMM	Trees	LV2	Opportunities for the retention and protection of existing street trees would be identified during detailed construction planning.	All	Applicable
REMM	Trees	LV3	Existing trees to be retained would be protected prior to the commencement of construction in accordance with Australian Standard AS4970 the Australian Standard for Protection of Trees on Development Sites and Adjoining Properties.	All	Applicable
REMM	Trees	LV9	Trees removed by the major civil construction work between The Bays and Sydney CBD would be replaced to provide a net increase in the number of mature trees at a ratio of 2:1 across the entire Sydney Metro west project (as part of future approval stages of Sydney Metro West).	All	Applicable
REMM	Visual impacts	LV10	Any new temporary structures on the construction site boundary facing Richard Johnson Square would consider urban design or landscape treatment (in consultation with City of Sydney) to minimise visual amenity and landscape impact where feasible and reasonable.	Hunter Street Station (Sydney CBD) eastern construction site	Applicable
REMM	General business impacts	BI1	Small business owner engagement would be undertaken to assist small business owners adjacent to major construction sites that are adversely impacted by construction.	All	Applicable
REMM	Power and utility interruptions	BI2	Planned power and utility interruptions would be scheduled to occur before or after typical business hours where feasible and reasonable. Prior notice would be provided to all affected business owners of the interruptions. Given several businesses operate on a 24 hour a day, seven days a week basis and outside of normal business hours, these businesses would need to be consulted prior to any disruption. In addition, businesses operating financial market infrastructure would be consulted to ensure sufficient backup arrangement can be put in place to minimise any disruptions to their services.	All	Applicable
REMM	Business visibility and accessibility	BI3	Hoarding and screening impacting the visibility of business would be minimised where feasible and reasonable, without compromising public safety or the effective management of construction airborne noise. Clear pathways and signage would be implemented around construction sites to maximise visibility of retained businesses, including sufficient lighting along pedestrian footpaths during the night, where relevant.	All	Applicable

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REMM	Impacts on social infrastructure	S1	Consultation would be carried out with managers of social infrastructure located near construction sites about the timing and duration of construction work and management of potential impacts, with the aim of minimising potential disruption to the use of the social infrastructure from construction activity.	All	Applicable
REMM	Social impacts	S2	The Sydney Metro West Community Benefit Plan for major civil construction between Westmead and The Bays would be updated to include the proposal area. The plan guides the development of community benefit initiatives (by Principal Contractors) during construction to make a positive contribution to the potentially affected community. The key objectives of the plan would include: - Identify opportunities to create environmental and community benefits and provide positive social outcomes - Respond to community priorities and needs in the locality of each relevant construction site.	All	Applicable
REMM	Impacts on events or festivals	S3	Consultation would be carried out with festival and event organisers and operational teams within Transport for NSW in proximity to construction sites to mitigate potential impacts on the operation of the festival or event.	Pymont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Promote local culture and identity	S4	Consultation would be carried out with stakeholders to identify opportunities for design on construction site hoarding to reflect community values, culture and identity of the local community. Construction site hoarding would be designed in accordance with Sydney Metro Brand Design Guidelines and opportunities for public art on hoardings would be considered in locations of high pedestrian use.	All sites	Applicable
REMM	Baseline monitoring of hydrogeological attributes	GW3	Monitoring of groundwater levels and quality at the site area would occur before and during construction. This would also include monitoring of potential contaminants of concern. Groundwater level data would be regularly reviewed during and after construction by a qualified hydrogeologist. Groundwater monitoring data would be provided to the NSW EPA and Department of Planning and Environment and the Natural Resources Access Regulator for information.	All	Applicable
REMM	Ground movement and settlement	GW1	A detailed geotechnical model for the proposal would be developed and progressively updated during design and construction. The detailed geotechnical model would include: - Assessment of the potential for damage to structures, services, basements and other subsurface elements through settlement or strain - Predicted changes to groundwater levels, including at nearby water supply work. Where building damage risk is rated as moderate or higher, a structural assessment of the affected buildings/structures would be carried out and specific measures implemented to address the risk of damage. Where a significant exceedance of target changes to groundwater levels are predicted at surrounding land uses and nearby water supply work, an appropriate groundwater monitoring program would be developed and implemented. The program would aim to confirm no adverse impacts on groundwater levels or to appropriately manage any impacts. Monitoring at any specific location would be subject to the status of the water supply work and agreement with the landowner.	Where required	Applicable
REMM	Ground movement and settlement	GW2	Condition surveys of buildings and structures in the vicinity of the tunnel and excavations would be carried out prior to the commencement of excavation at each site.	Where required	Applicable
REMM	Acid sulfate soils	SSWQ1	Prior to ground disturbance in areas of potential acid sulfate soil occurrence, testing would be carried out to determine the presence of actual and/or potential acid sulfate soils. If acid sulfate soils are encountered, they would be managed in accordance with the Acid Sulfate Soil Manual (ASSMAC, 1998).	The Bays tunnel launch and support site Pymont Station construction sites	Applicable
REMM	Soil salinity	SSWQ2	Prior to ground disturbance in high probability salinity areas, testing would be carried out to determine the presence of saline soils. If salinity is encountered, excavated soils would not be reused or would be managed in accordance with Book 4 Dryland Salinity: Productive Use of Saline Land and Water (NSW DECC, 2008b). Erosion controls would be implemented in accordance with the 'Blue Book' (Landcom, 2004).	The Bays tunnel launch and support site Pymont Station construction sites	Applicable
REMM	Erosion and sedimentation	SSWQ3	Erosion and sediment measures would be implemented at all construction sites in accordance with the principles and requirements in Managing Urban Stormwater – Soils and Construction, Volume 1 (Landcom, 2004) and Volume 2D (NSW Department of Environment, Climate Change and Water 2008a), commonly referred to as the 'Blue Book', to ensure water quality is not adversely affected at receiving waters to a minimum set by the 80th percentile five day rainfall event. Additionally, any water collected from construction sites would be appropriately treated and discharged to avoid any potential contamination or local stormwater impacts. Temporary sediment basins would be designed in accordance with Managing Urban Stormwater: Soils and Construction and Managing Urban Stormwater, Volume 2D: Main Road Construction (DECC, 2008a).	All	Applicable
REMM	Working in low lying areas	SSWQ4	Work in waterbodies and surrounding low lying areas would be carried out in accordance with progressive erosion and sediment control plans.	The Bays tunnel launch and support site	Applicable
REMM	Wastewater discharge	SSWQ5	The water treatment plants would be designed with the aim of treating wastewater to a level as close as practicable to the ANZECC/ARMCANZ (2000), ANZG (2018) and draft ANZG (2020) default guidelines for 95 per cent species protection and 99 per cent species protection for toxicants that bioaccumulate, unless other discharge criteria are agreed with relevant authorities.	All	Applicable
REMM	Water quality monitoring	SSWQ6	A surface water monitoring program would be implemented to observe any changes in surface water quality that may be attributable to construction and inform appropriate management responses. The program would be developed in consultation with the EPA and relevant councils. The program would consider monitoring being carried out as part of other infrastructure projects. Monitoring would occur during pre-construction and during construction at all waterways with the potential to be impacted. Monitoring would include sampling for key indicators of concern.	All	Applicable

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REMM	Local stormwater capacity	SSWQ7	Further design development would confirm the local stormwater system capacity to receive construction water treatment plant inflows. In the event there is a stormwater infrastructure capacity issue with existing infrastructure, mitigation measures such as storage detention to control water outflow during wet weather events would be implemented.	All	Applicable
REMM	Activities on waterfront land	SSWQ8	The Guidelines for controlled activities on waterfront land (Natural Resources Access Regulator, 2018) will be considered prior to proceeding with work on waterfront land.	All	Applicable
REMM	Low risk contamination	C1	For sites where potential contamination risk is moderate, high or very high, a further review of data (if available), including a detailed site inspection, would be carried out. Where this Environmental Impact Statement or the additional data review provides sufficient information to confirm that contamination conditions are likely to have a very low or low impact to receivers at a construction site, the site would then be managed as part of construction and in accordance with the relevant subplan in the Construction Environmental Management Framework (the Soil and Water Management Plan). This would typically occur where there is minor, isolated contamination that can be readily remediated through standard construction practices such as excavation and off-site disposal.	All	Applicable
REMM	Unknown risk of contamination	C2	Where data from the additional data review (mitigation measure C1) is insufficient to understand the risk of contamination, a Detailed Site Investigation would be carried out in accordance with the National Environment Protection Measure (2013) and other guidelines made or endorsed by the NSW EPA. The sites requiring a Detailed Site Investigation would be confirmed following the additional data review (mitigation measure C1) however based on the impact assessment, it is anticipated that a Detailed Site Investigation would be required at the applicable location.	Pymont Station eastern construction site	Applicable
REMM	Moderate, High or Very High risk of contamination	C3	Where data from the additional data review (mitigation measure C1) or the Detailed Site Investigation (mitigation measure C2) confirms that contamination would have a moderate, high or very high risk and remediation is required to make the site suitable for its proposed use, a Remediation Action Plan would be developed for the relevant area of the construction site/s. Each Remediation Action Plan would detail the remediation or management work required to mitigate risks from contamination in order to make the site suitable for its proposed use. The Remediation Action Plan would be prepared in accordance with relevant NSW EPA guidelines and where applicable, detail remediation methodologies in accordance with Australian Standards and other relevant government guidelines and codes of practice. Remediation would be performed as an integrated component of construction and to a standard commensurate with the proposed end use of the land. The sites requiring Remediation Action Plans would be confirmed following the additional data review (mitigation measure C1) and Detailed Site Investigation (mitigation measure C2).	As applicable	Applicable
REMM	Impacts to receivers occurring from highly complex contamination	C4	Where contamination is highly complex, such as significant groundwater contamination; contamination associated with vapour; contamination that requires specialised remediation techniques; or contamination that requires ongoing active management during and beyond construction, an accredited Site Auditor would review and approve the Remediation Action Plan, and would develop a Site Audit Statement and Site Audit Report upon completion of remediation. The sites requiring Site Audit Statements would be confirmed following the preparation of Remediation Action Plans (mitigation measure C3).	As applicable	Applicable
REMM	Residual contamination following construction	C5	Ongoing management and monitoring measures would be documented in an appropriate form and implemented for any areas where minor, residual contamination remains following construction.	As applicable	Applicable
REMM	Migration of contaminated groundwater	C6	Where off-site sources of groundwater contamination have been identified, development and implementation of controls to manage the potential impacts of contamination due to drawdown and resulting migration of contaminated groundwater into the construction footprint would be implemented. A review of available groundwater data would be completed to inform the relevant subplan in the Construction Environmental Management Framework (the Groundwater Management Plan). Where insufficient data is available to understand groundwater conditions and the potential for contamination to migrate as a result of the proposal, further investigation would be carried out if considered necessary and if not already undertaken under mitigation measure C2.	All	Applicable
REMM	Flooding behaviour impacts	HF1	Detailed construction planning would consider flood risk at construction sites. This would include: • Identification of measures to not worsen flood impacts on the community and on other property and infrastructure during construction up to and including the 1% AEP flood event • Provide flood-proofing to excavations at risk of flooding or coastal inundation during construction, where reasonable and feasible, such as raised entry into shafts and/or pump-out facilities to minimise ingress of floodwaters into shafts and the dive structure • Review of site layout and staging of construction activities to avoid or minimise obstruction of overland flow paths, address loss of flood plain storage and limit the extent of flow diversion required. This includes design of site hoardings to minimise disruption to flow paths (if possible). Not worsen is defined as: • A maximum increase in flood levels of 50 millimetres in a 1% AEP flood event • A maximum increase in time of inundation on one hour in a 1% AEP flood event • No increase in potential soil erosion and scouring from any increase inflow velocity in a 1% AEP flood event.	All	Applicable
REMM	Flooding behaviour impacts	HF2	Drainage at construction sites would be designed, where feasible and reasonable, to mitigate potential alterations to local runoff conditions due to construction sites.	All	Applicable
REMM	Flooding behaviour impacts	HF3	Detailed construction planning for The Bays tunnel launch and support site construction would aim to minimise changes to existing levels in relation to potential impacts on flood behaviour, along the north-western side of site adjacent to low-lying property, to minimise reduction in floodplain storage and blockage to local overland flow path.	The Bays tunnel launch and support site	Applicable

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REMM	Flooding emergency management	HF4	Construction planning regarding flooding matters would be carried out in consultation with the NSW State Emergency Service and the relevant local council.	All	Applicable
REMM	Impacts to flood mitigation work	HF5	Detailed construction planning for The Bays tunnel launch and support site would aim to avoid conflicts with the potential construction of flood mitigation work in Robert Street, in consultation with Inner West Council.	The Bays tunnel launch and support site	Applicable
REMM	Potential cumulative impacts	HF6	To ensure flood protection on the bottom of the adit between Hunter Street Station (Sydney CBD) construction site and the Sydney Metro – City & Southwest Martin Place metro Station site, appropriate flood protection would be implemented.	Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Unexpected microbat finds procedure	B1	If any threatened microbats (threatened or non-threatened) are identified prior to or during any part of the demolition work then the unexpected microbats finds procedure would be implemented, including notification to the NSW Environment and Heritage Group.	Pymont Station construction sites Hunter Street Station (Sydney CBD) construction sites	Applicable
REMM	Street tree impacts	B2	Sydney Metro would engage a suitably qualified project arborist to assess street trees that would be pruned or have the potential to be impacted as a result of this proposal. The project arborist would provide advice on measures to minimise damage to street trees.	All	Applicable
REMM	Dust impacts during all construction phases	AQ1	The following best-practice dust management measures would be implemented during all construction work: • Regularly wet-down exposed and disturbed areas including stockpiles, especially during dry weather • Adjust the intensity of activities based on measured and observed dust levels and weather forecasts • Minimise the amount of materials stockpiled and position stockpiles away from surrounding receivers • Regularly water haul roads and exposed areas and ensure that all loads are covered • Regularly inspect and as necessary, remove any loose materials tracked along haulage routes • Regularly inspect dust emissions and apply additional controls as required • Implement all relevant measures listed in the UK IAQM corresponding to the highest level of risk determined around each construction site. At locations where there is an acoustic shed established, dust filtering systems will be installed on the acoustic shed exhaust.	All	Applicable
REMM	Exhaust emissions from the combustion of fossil fuels during construction	AQ2	• Maintaining plant and equipment in a proper and efficient manner • Conducting visual inspections of emissions from plant as part of pre-acceptance checks • Switching off plant and equipment when not in-use • Avoiding diesel or petrol-powered generator use wherever possible with mains electricity or battery powered equipment used wherever practicable	All	Applicable
REMM	Odour emissions during construction	AQ3	The following best-practice odour management measures would be implemented during relevant construction work: • The extent of opened and disturbed contaminated soil at any given time would be minimised • Temporary coverings or odour suppressing agents would be applied to excavated areas where appropriate • Regular monitoring would be conducted during excavation to verify that no offensive odours are being detected beyond the site boundary.	All	Applicable
REMM	Compliance with legislative and policy requirements	WR1	All waste would be assessed, classified, managed, transported and disposed of in accordance with the Waste Classification Guidelines and the Protection of the Environment Operations (Waste) Regulation 2014.	All	Applicable
REMM	Disposal of hazardous materials	WR2	A hazardous material survey would be completed for those buildings and structures suspected of containing hazardous or special waste materials (particularly asbestos) prior to their demolition. If hazardous waste or special waste (e.g. asbestos) is encountered, it would be handled and managed in accordance with relevant legislation, codes of practice and Australian standards.	All	Applicable
REMM	Waste minimisation	WR3	Construction waste would be minimised by accurately calculating materials brought to the site and limiting materials packaging.	All	Applicable
REMM	Reuse and recycling	WR4	Waste streams would be segregated to avoid cross-contamination of materials and maximise reuse and recycling opportunities.	All	Applicable
REMM	Reuse on Sydney Metro West sites	WR5	A materials tracking system would be implemented for material transferred between Sydney Metro West sites and to offsite locations such as licensed waste management facilities.	All	Applicable
REMM	Impacts on underground utilities	HA1	Dial before you dig searches and non-destructive digging would be carried out to identify the presence of underground utilities.	All	Applicable
REMM	Impacts on underground utilities	HA2	Ongoing consultation would be carried out with utility providers for high pressure gas pipelines to identify appropriate construction methodologies to be implemented. Any interaction with high pressure gas pipelines would comply with the relevant standards, including AS 2885 Pipelines – Gas and Liquid Petroleum.	All	Applicable
REMM	Sustainability implementation	SCC1	Sustainability initiatives would be incorporated into the detailed design and construction to support the achievement of the Sydney Metro West sustainability objectives.	All	Applicable
REMM	Sustainability implementation	SCC2	Best practice level of performance would be achieved using market leading sustainability rating tools during design and construction.	All	Applicable
REMM	Climate change risks	SCC3	Climate change risk treatments would be confirmed and incorporated into the detailed design.	All	Applicable

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REMM	Greenhouse gas emissions	SCC4	An iterative process of greenhouse gas assessments and design refinements would be carried out during detailed design and construction to identify opportunities to minimise greenhouse gas emissions. Performance would be measured in terms of a percentage reduction in greenhouse gas emissions from a baseline inventory calculated at the detailed design stage.	All	Applicable
REMM	Greenhouse gas emissions	SCC5	25 per cent of the greenhouse gas emissions associated with consumption of electricity during construction would be offset.	All	Applicable
REMM	Occurrence of Cumulative impacts	CI1	Coordination and consultation with the following stakeholders would occur where required to manage the interface of projects under construction at the same time: • Other parts of Transport for NSW • Department of Planning, Industry and Environment • Port Authority of NSW • Local government • Emergency service providers • Utility providers • Construction contractors. Co-ordination and consultation with these stakeholders would include: • Provision of regular updates to the detailed construction program, construction sites and haul routes • Identification of key potential conflict points with other construction projects • Developing mitigation strategies in order to manage conflicts. Depending on the nature of the conflict, this could involve: – Adjustments to the Sydney Metro construction program, work activities or haul routes; or adjustments to the program, activities or haul routes of other construction projects – Co-ordination of traffic management arrangements between projects.	Assume All (blank in Subs report)	Applicable

8 Appendix D – ER Endorsement

Mr Ben Armstrong
Director Environment, Sustainability and Planning
Metro West
Sydney Metro
PO Box K659
HAYMARKET NSW 1240

24 January 2023

Ref: 201208 STG2G1 PHASINGRPT R1.2

Dear Ben

RE: Endorsement of the Phasing Report – Sydney Metro West, Stage 2, Phase G1, R1.2

Thank you for providing the *Sydney Metro West Stage 2 – Phasing Report, Rev 1.2, January 2022* for Environmental Representative (ER) required by Condition of Approval A14 of the Sydney Metro West – The Bays to Sydney CBD Approval (SSI 1923805, 24 August 2022).

In the development of this report, as ER I have provided comment on the Phasing Report Rev 1.0 with respect to the risk assessment required under A14(d) and how it informs Conditions C2, C7 and C18. In particular, the risk context, the level of inherent risk, and the level of likely mitigated risk post implement of various system controls, as well as the proposed application of the CEMF framework commensurate with risk. This was generally consistent with the approach taken previously on other Sydney Metro projects. Further I sought input from the Acoustic Advisor (AA) regarding the noise and vibration aspects of the risk assessment including potential vibration impacts on heritage structure and the AA also supports the included risk assessment.

Revision 1.0 was presented to the Department of Planning and Environment with comments sought. Feedback was received from the Department on 19 January 23. This Revision 1.2 also incorporates the feedback received, including:

- Update to allow the future location of the investigation works
- Update to the timing of Phase G1 beginning
- Update to the applicability of key deliverables (Table 7)

It should be noted that the ER review of risks and the allocation of requirements is based on information known to the ER at the time of review and may be subject to update as the project evolves.

As an approved ER for the project under Condition A10, in accordance with Condition A32(d), I endorse this document as consistent with the requirements under the Approval and is appropriate for submission to the Planning Secretary.

Yours sincerely

A handwritten signature in black ink, consisting of a stylized 'J' followed by a horizontal line and a small flourish.

Jo Robertson
Environmental Representative – Sydney Metro