

Pre-Construction Compliance Report

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Signature:						

Pre-Construction Compliance Report



Details of Revision Amendments

Document Control

The Project Director is responsible for ensuring that this Plan is reviewed and approved. The Support Services Director (SSD) is responsible for updating this Plan to reflect changes to the Project, legal and other requirements, as required.

Amendments

Any revisions or amendments must be approved by the Project Director before being distributed or implemented.

Revision Details

Revision	Details
00	Prepared for submission to DP&E
01	Update to address revised staging
02	Update to address revised staging and project status
03	Update to address a non-compliance identified during the reporting period
04	Update to include WCX M5 AT review
05	Update to address DP&E comments on Appendix A

Pre-Construction Compliance Report



Contents

1. Introduction	4
1.1 Project description	4
1.2 Project staging	5
1.3 Purpose	6
1.4 Environmental management system overview	6
2. Program requirements	7
2.1 Assessment under the Instrument of Approval and REMMs	7
2.2 Department of Planning and Environment notification	8
2.3 Periodic review	8
2.4 Reporting	11
2.4.1 Compliance Reporting	11
2.4.2 Other Reporting	12
2.5 Environmental auditing	14
3. Pre-Construction Activities	17
3.1 Nomination of Environmental Representative	17
3.2 Pre-construction site activities	17
3.3 Pre-construction Compliance Summary	17
Appendix A: Minister's Conditions of Approval	19
Appendix B: Revised Environmental Management Measures	138
Appendix C: Glossary of terms	214

Pre-Construction Compliance Report



1. Introduction

1.1 Project description

WestConnex is Australia's largest road project, linking Sydney's west and south-west with the city, airport and port in a 33 kilometre continuous motorway. It will facilitate economic growth and urban revitalisation by providing new opportunities for residential and commercial development.

The WestConnex Project is being delivered in three stages:

- WestConnex Stage 1: M4 – Parramatta to Haberfield (the “M4 East”)
- **WestConnex Stage 2: M5 – Beverly Hills to St Peters (“the New M5”)**, and
- WestConnex Stage 3: M4-M5 Link – Haberfield to St Peters (“Stage 3”).

The New M5 Project (New M5, the project) is designated as State Significant Infrastructure (SSI 6788) and is the Stage 2 component of the WestConnex scheme. The proponent for the project is Roads and Maritime Services (RMS) and the project company (WCX M5 AT). WCX M5 AT has engaged the CPB Samsung Dragados Joint Venture (CDS-JV) to deliver the design and construction of the project. The project was approved by the Minister for Planning on 20 April 2016, subject to conditions.

The Project will run from the existing M5 East corridor at Beverly Hills via tunnel to St Peters, providing improved access to the airport, south Sydney and Port Botany precincts. The Project will substantially improve the east - west corridor access between the Sydney CBD, Port Botany and Sydney Airport precincts and the South West growth areas.

The project comprises the following key features:

- Twin motorway tunnels between the existing M5 East Motorway (between King Georges Road and Bexley Road) and St Peters. Each tunnel would be around nine kilometres in length and would be configured as follows:
 - Between the western portals and Arncliffe, the tunnels would be built to be three lanes wide but marked for two lanes as part of the project. Any change from two lanes to three lanes would be subject to future environmental assessment and approval
 - Between Arncliffe and St Peters, the tunnels would be built to be five lanes wide but marked for two lanes as part of the project. Any change from two lanes to any of three, four or five lanes would be subject to future environmental assessment and approval
- Tunnel stubs to allow for a future connection to the M4-M5 Link and a future connection to southern Sydney via a future Southern extension
- Surface road widening works along the M5 East Motorway between east of King Georges Road and the new tunnel portals
- A new road interchange at St Peters, which would initially provide road connections from the main alignment tunnels to Campbell Road and Euston Road, St Peters
- Two new road bridges across Alexandra Canal which would connect St Peters interchange with Gardeners Road and Bourke Road, Mascot
- Closure and remediation of the Alexandria Landfill site, to enable the construction and operation of the new St Peters interchange
- Works to enhance and upgrade local roads near the St Peters interchange
- Ancillary infrastructure and operational facilities for electronic tolling, signage (including electronic signage), ventilation structures and systems, fire and life safety systems, and emergency evacuation and smoke extraction infrastructure
- A motorway control centre that would include operation and maintenance facilities
- New service utilities and modifications to existing service utilities
- Temporary construction facilities and temporary works to facilitate the construction of the project
- Infrastructure to introduce tolling on the existing M5 East Motorway

Surface road upgrade works within the corridor of the M5 East Motorway.

Pre-Construction Compliance Report



1.2 Project staging

Roads and Maritime has elected to stage the New M5 project in accordance with CoA A10. The stages are described in detail in the New M5 Staging Report and summarised in Table 1.

Table 1: Project Staging

Stage	Sub-stage	Project location	Description
1	a)	Kingsgrove construction compounds (C1, C2 and C3)	Site establishment activities e.g.: minor vegetation clearance, demolition, installation of environmental controls, services protection/installation/relocation, installation of access arrangements, installation of site fencing, installation of noise walls including associated piling, installation of compound facilities including offices, amenities and workshops.
	b)	Bexley Road North (C4), Bexley Road South (C5), Bexley Road East (C6), Arncliffe (C7), Canal Road (C8), Campbell Road (C9), Landfill Closure (C10) and Burrows Road (C11) Construction Compounds.	
	c)	HV power alignments as described in Addendum No. 1 to the Ancillary Facilities Management Plan (AFMP): Alignment 1: Rockdale substation to Arncliffe construction compound (C7); Alignment 2: Commercial Road to Kingsgrove construction compound (C3); Alignment 3: May St substation to Canal Road construction compound (C8); Alignment 4: Campsie substation to Bexley North construction compound (C4).	Provision of High Voltage (HV) power to construction compounds C3, C4, C7 and C8 including protection and/or relocation of existing services, trenching, pipe-jacking, horizontal directional drilling, cable-pulling, backfilling of trenches, temporary stockpiling and reinstatement/rehabilitation of pavements and surfaces.
2	a)	Kingsgrove construction compounds (C1, C2 and C3)	Continuation of Stage 1 activities, and commencement of all other surface establishment and construction activities, including installation of acoustic sheds, excavation of shafts/declines, demobilisation and rehabilitation.
	b)	Bexley construction compounds (C4-C6)	
	c)	Arncliffe construction compound (C7)	
	d)	St Peters Interchange construction compounds (C8-C11)	
	e)	Local Roads construction compounds (C12-C14)	
3		Mainline tunnelling - all project sites.	Commencement of tunnelling works including excavation with roadheaders, tunnel fit-out and commissioning works.

The key distinguishing feature of Stage 2 is the commencement of construction as defined under the Infrastructure Approval. Stage 3 comprises mainline tunnelling activities, which includes roadheader excavation, tunnel fit-out and commissioning.

Stage 1 activities are anticipated to commence in July 2016, Stage 2 activities in August 2016 and Stage 3 activities in February 2017.

Pre-Construction Compliance Report



1.3 Purpose

The purpose of this Pre-Construction Compliance Report (PCCR) is to satisfy CoA A14(c)(i) of the planning approval and to provide to the Department of Planning and Environment (DP&E) a report that provides a status on the compliance of the project with pre-construction conditions and requirements.

CDS-JV, WCX M5 AT and Roads and Maritime are jointly responsible for compliance with the project conditions of approval and other requirements.

The scope of this report is based on CoA A14. The requirements relevant to the PCCR are provided in Table 2.

This Pre-Construction Compliance Report relates to site establishment. Revision 1 of this report was provided prior to the commencement of Stage 1 establishment works. This Revision 4 provides an additional pre-construction status update and includes the revised project staging as described in the New M5 Staging Report dated 26 July 2016.

1.4 Environmental management system overview

The environmental management system (EMS) is the primary system to manage and control the environmental aspects of the project during pre-construction and construction. It also provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative requirements are fulfilled.

The CDS-JV EMS is based on the CPB Contractors EMS, which was adapted to address project and joint venture requirements.

The Construction Environmental Management Plan (CEMP) is the key document of the EMS. The strategies defined in the CEMP have been developed with consideration of the CoA and the revised environmental management measures (REMMs) presented in the New M5 Submissions Report. The CEMP establishes the system for implementation, monitoring and continuous improvement to minimise impacts from the project on the environment and community.

This PCCR is separate from the CTP and CEMP, but is part of a suite of environmental management documents prepared for the New M5 project.

Pre-Construction Compliance Report



2. Program requirements

This PCCR has been prepared as a requirement of CoA A14. The relevant requirements of this condition are detailed in Table 2.

Table 2: Conditions of Approval for the PCCR

No.	Relevant requirement	Where addressed
A10	The Proponent may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Proponent must submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report must provide details of:	A Staging Report has been prepared and is being provided to the Secretary with this PCCR prior to the commencement of Stage 1 activities.
(b)	details of the relevant conditions of approval, which would apply to each stage and how these will be complied with across and between the stages of the SSI.	This PCCR satisfies this condition and supports the Staging Report. The PCCR notes the conditions which are relevant to each stage of the project and how compliance has been or will be achieved.
A14	The Proponent must prepare and implement a Compliance Tracking Program to track compliance with the requirements of this approval. The Compliance Tracking Program must be submitted to the Secretary for approval prior to the commencement of construction and operate for a minimum of 24 months following commencement of operation, subject to the Secretary's review of the outcomes of the Independent Environmental Audit Report required by condition E51. The operation of the program may be extended if the Secretary determines that there has been unsatisfactory compliance. The Compliance Tracking Program must include, but not be limited to:	A CTP has been prepared and was submitted to the Secretary on 6/06/16. The CTP was approved by the Secretary on 25/07/16 and will operate for a minimum of 24 months following commencement of operation.
(c)	provision for periodic reporting of compliance status to the Secretary, including but not limited to: (i) a Pre-Construction Compliance Report prior to the commencement of construction,	Section 2.4

2.1 Assessment under the Instrument of Approval and REMMs

This PCCR is prepared in accordance with CoA A14 and is required to address the project requirements contained in the Minister's Conditions of Approval and the Revised Environmental Management Measures (REMMs) provided in the Submissions Report. The New M5 must demonstrate continuous compliance with all associated requirements.

Table 3 provides a definition for the assessment criteria used in this PCCR.

Table 3: Assessment criteria for compliance

Status	Description
Compliant	The intent and all specific requirements of the consent conditions have been met.
Verification	In the absence of formal written verification the auditor is able to verify by other demonstrable means (visual inspection, personal communication etc) that a condition has been met then, in most cases, the operation should be considered to be in compliance for that condition.
Non-compliant	The intent or one or more specific requirements of the conditions or management measures have not been met.

Pre-Construction Compliance Report



Status	Description
Administrative non-compliance	A technical non-conformance with a condition of the consent that would not impact on environmental performance and that is considered minor in nature (eg. Report submitted but not on the due date). This would not apply to performance-related aspects (eg. Exceedances of a noise limit) or where a condition or management measure has not been met at all (eg. Noise management plan not prepared and submitted for approval at all).
Not triggered	A condition or requirement has an activation or timing requirement that has not been sufficiently triggered at the time of the review, therefore a determination of compliance should not be made.
Observation	An observation made or improvement opportunity has been identified.

2.2 Department of Planning and Environment notification

CDS-JV have commenced establishment activities (Stage 1) as defined by the Instrument of Approval in accordance with the approved Ancillary Facilities Management Plan (AFMP), which was approved by the Secretary of Department of Planning and Environment (DP&E) on 23 June 2016.

Since Revision 1 of this PCCR, CDS-JV have also commenced construction activities (Stage 2) as defined by the Instrument of Approval at the Bexley construction compounds (C4-C6) in accordance with the conditional approval of the CEMP, provided by DP&E on 4 August 2016. Commencement of construction at the remaining sites will occur once all remaining safety and environmental approvals/consents are in place, including the satisfaction of CEMP conditions as provided in the DP&E letter of approval for the CEMP, dated 4 August 2016.

CDS-JV will provide written notification to the Secretary prior to the commencement of construction (Stage 2), prior to the commencement of each stage and prior to the commencement of operation. CDS-JV will also submit an updated Staging Report to the Secretary that provides compliance status against each condition, as required by CoA A10, prior to the commencement of each stage.

2.3 Periodic review

Regular compliance activities, such as inspections, observations and monitoring will be undertaken in accordance with the AFMP (Stage 1 and 2) and the CEMP (Stage 2) as required.

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

A summary of monitoring requirements specifically identified in the Conditions of Approval for the construction phase of the project are summarised in Table 4. Monitoring requirements are addressed within specific programs or plans as identified in the final column.

Table 4: Project monitoring requirements identified in the CoA

CoA ref	Required monitoring	Where addressed
Construction phase		
B13	A Biodiversity Offset Package is required to be developed. Monitoring must be undertaken for any potential compensatory habitat works, if such work is required.	Biodiversity Offset Package
B14(a)	An adaptive monitoring program is to be developed as part of the Green and Golden Bell Frog Plan of Management.	Green and Golden Bell Frog Plan of Management

Pre-Construction Compliance Report



CoA ref	Required monitoring	Where addressed
B15(a)	An adaptive monitoring program is to be developed to assess the success of the habitat creation, survival and breeding of the released GGBF population at Arncliffe.	Habitat Creation and Captive Breeding Plan
B15(j)	Ongoing monitoring, review and amendment of the Habitat Creation and Captive Breeding Plan.	Habitat Creation and Captive Breeding Plan
B28(h)	Baseline surface water and groundwater monitoring conducted prior to the commencement of construction.	Water Quality Plan and Monitoring Program
B28(i),(j),(k), (m),(q),(r)	Surface water and groundwater monitoring at specific locations, at a frequency and for a duration that are representative of the potential extent of impacts from the project. Monitoring is to include discharges from construction and operational water treatment plants, streambed fracturing and extracted groundwater volumes.	Water Quality Plan and Monitoring Program
B32(a),(e)	Monitoring framework implemented following the cessation of waste disposal and material recycling activities at the Alexandria Landfill and associated waste recycling and transfer facility, including the groundwater monitoring bore network.	Landfill Closure Management Plan
B61(m)	Monitoring and maintenance procedures for built elements, rehabilitated vegetation and landscaping.	Urban Design and Landscape Plan
B66(a)	Monitoring social impacts of the SSI, including cumulative impacts and reviewing the effectiveness of mitigation measures in directly affected precincts.	Community and Social Management Plan
D1(b)	The Environmental Representative must monitor the implementation of environmental management plans and monitoring programs required under the CoA.	Construction Environmental Management Plan (CEMP)
D22	Vibration testing and monitoring to identify minimum working distances to retained heritage items to prevent cosmetic damage.	Construction Noise and Vibration Management Plan (CNVMP) Construction Heritage Sub-Plan (CHSP)
D23	Noise monitoring during initial high noise generating activities (such as piling, rock hammering, jack hammering) to confirm the number of sensitive receivers which may experience sleep disturbance.	CNVMP
D28(f)	Appropriate noise and vibration monitoring during blasting activities.	Blast Management Strategy (if blasting is required)
D50(f)	Monitoring of impacts resulting from on and off-street parking changes during construction.	Construction Parking and Access Strategy
D54(e)	Monitoring of the effectiveness of actions and measures implemented to manage contamination impacts during project works.	Construction Contaminated Land Management Plan (CCLMP)
D54(f)	Monitor, review, and amend the Construction Contamination Management Plan.	CCLMP
D57(f)	Details of monitoring specific to each facility to be implemented to minimise environmental and amenity impacts of ancillary facilities.	Ancillary Facilities Management Plan (AFMP)
D57(l)	Monitor, review and amend the Ancillary Facilities Management Plan.	AFMP
D67(e)	Monitoring of environmental performance across the project.	CEMP
D67(e)(i)	Monitoring of dust emissions.	Construction Air Quality Sub-Plan (CAQSP)
D67(e)(iii)	Monitoring of waste generated during construction.	Waste and Resource Sub-Plan (CWRSP)

Pre-Construction Compliance Report



CoA ref	Required monitoring	Where addressed
D67(e)(iv)	Monitoring hazards and risks across the project.	CEMP and each sub-plan
D67(e)(v)	Monitoring and rectification of impacts to third party property and infrastructure.	Community Communication Strategy
D68(a)(xi)	Monitor, review and amend the Construction Traffic and Access Management Plan.	Construction Traffic and Access Management Plan (CTAMP)
D68(b)(xi)	Monitoring effectiveness of mitigation and management measures implemented during proposed works.	CNVMP
D68(b)(xiii)	Monitor, review and amend the Construction Noise and Vibration Management Plan.	CNVMP
D68(c)(ii)(C)	Monitoring and reporting of impacts to heritage items.	CHSP
D68(c)(iii)	Monitor, review and amend the Construction Heritage Management Plan.	CHSP
D68(d)(vi)	Monitoring the effectiveness of flora and fauna management measures.	Construction Flora and Fauna Sub-Plan (CFFSP)
D68(d)(xi)	Monitor the condition of groundwater dependent ecosystems in Bardwell Valley Parkland and Broadford Street Reserve and Stotts Reserve.	CFFSP and Water Quality Plan and Monitoring Program (WQP&MP)
D68(d)(xiii)	Monitor, review and amend the Construction Flora and Fauna Management Plan	CFFSP
D68(d)(xv)	Monitor, review and amend the Construction Soil and Water Management Plan.	CFFSP
D68(d)(xv)	Monitor, review and amend the Construction Soil and Water Management Plan.	CFFSP
D68(e)(iii)	Monitoring air quality impacts.	CAQSP
D68(e)(viii)	Provisions for implementation of additional mitigation measures in response to issues identified during monitoring and reporting.	CAQSP
D68(e)(ix)	Monitor, review and amend the Construction Air Quality Management Plan.	CAQSP
D68(f)(v)	Monitoring water quality at acid sulfate soils treatment areas.	Acid Sulfate Soils Sub-Plan (ASSSP)
D68(f)(vi)	Monitoring the effectiveness of actions and measures for management soil and water impacts.	Construction Soil and Water Quality Sub-Plan (CSWQSP) and WQP&MP
D68(f)(vii)	Monitor, review and amend the Construction Soil and Water Management Plan.	CSWQSP
Operational phase		
E2	Monitoring pollutants within the tunnel.	Operational Environmental Management Plan (OEMP)
E10	Monitoring pollutants associated with ambient air quality.	OEMP
E11	Monitoring locations must be selected with the objective of achieving like-to-like comparison of monitoring results with available pre-construction data	OEMP
E12	Monitoring results must be made publicly available and must be subject to an independent audit at six-monthly intervals	OEMP
E13	Monitoring to be conducted for at least twelve continuous months prior to operation and to continue for at least two years following the commencement of operation.	OEMP
E18	Monitoring of pollutants from the ventilation outlets.	OEMP

Pre-Construction Compliance Report



CoA ref	Required monitoring	Where addressed
E24	Results of hourly updated real-time ambient monitoring must be provided on a website and made publicly available each month	OEMP
E31(h)	Monitoring environmental performance across the project during the operational phase.	OEMP
E31(h)	Operational Environmental Management Plan (OEMP) must contain how environmental performance would be managed and monitored to meet acceptable outcomes.	OEMP
E34(f)(g)	Monitoring of operational noise, including on surrounding roads which experience significantly increased traffic volumes as a result of the project. Monitoring of noise in response to complaints. Monitoring and review of the Operational Noise Management Plan.	Operational Noise Management Plan (ONMP)
E38	Monitoring operational noise and vibration to compare actual noise and vibration performance of the project against the noise performance predicted in the Operational Noise and Vibration Review.	Operational Noise and Vibration Compliance Report
E38(a)	Details of the noise and vibration monitoring program including methodology, location and frequency of noise monitoring.	Operational Noise and Vibration Compliance Report
E42(f)	Mechanisms for monitoring of on- and off-street parking impacts and mitigation measures at 12 month intervals to determine the effectiveness of implemented mitigation measures and any supply and demand induced parking issues that are attributable to the SSI	Operational Parking and Access Strategy (OPAS)
E42(g)	Provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective.	OPAS
E42(h)	Provision of reporting of monitoring results to the Secretary and relevant councils at 12 month intervals for the first five years of operation.	OPAS

2.4 Reporting

2.4.1 Compliance Reporting

This PCCR Revision 4 provides the second compliance review for the project against the CoA and REMMs. The first construction-phase compliance review will be undertaken within the first three months of construction and every three months thereafter. A final review of construction-related compliance will be undertaken prior to the commencement of operation.

Input and review from WCX M5 AT will be required prior to submission to the Secretary for all construction compliance reporting.

The indicative timeframe for construction compliance reports is identified in Table 5.

Pre-Construction Compliance Report



Table 5: Indicative timeframe for construction compliance reporting

Item	Details	Timing / indicative timeframe	Responsibility	Recipient of report
Pre-construction compliance report	Status against CoA and REMM before construction starts	Prior to the commencement of Stage 1 - June 2016 Prior to the commencement of Stage 2 - August 2016 (this report)	Environment and Sustainability Manager	DP&E; WCX M5 AT; Environmental Representative
Construction compliance report	Status against CoA and REMM during construction phase	Quarterly throughout construction / October 2016 January 2017 April 2017 July 2017 October 2017 January 2018 April 2018 July 2018 October 2018 January 2019 April 2019	Environment and Sustainability Manager	DP&E; WCX M5 AT; Environmental Representative
Pre-Operation Compliance Report	Status against CoA and REMM before operation starts	Prior to the commencement of operation - mid 2019	Environment and Sustainability Manager	DP&E; WCX M5 AT; Environmental Representative

Section 3 provides a summary of the activities undertaken during the reporting period. Appendix A contains the details of each CoA and identifies the relevant project stages, timing and approval details as relevant to the pre-construction period. Appendix B contains the details of each REMM and identifies the timing and approval details as relevant to the pre-construction period.

2.4.2 Other Reporting

Additional reporting requirements identified in the project documents are included in Table 6. Further reporting may be necessary as works progress.

Table 6: Additional reporting requirements

Report	Details	Frequency	Standard	Responsibility	Recipient of report
Monthly environmental report	To be incorporated into the project monthly report - to address environmental statistics (e.g. incidents, regulatory action, complaints on environmental issues), monitoring program performance, key environmental issues.	Monthly, by the 5 th Business Day of each month	D&C Deed	Environment and Sustainability Manager	WCX M5 AT; Roads and Maritime; Independent Certifier; parent companies

Pre-Construction Compliance Report



Report	Details	Frequency	Standard	Responsibility	Recipient of report
Environmental Representative monthly report	Report on <ul style="list-style-type: none"> the Environmental Representative's actions and decision on matters specified in CoA D1 for the preceding month of site environmental performance following routine inspections any non-conformances with the CEMP and corrective/management actions required. 	Monthly within seven days for the end of each month for the duration of construction of the Project, or as otherwise agreed by the Secretary	CoA D2	Environmental Representative	DP&E WCX M5 AT CDS-JV
EPL annual returns	Report on compliance with EPL #20772 and EPL #4627	Annually	EPA annual return pro forma EPL #20772 & #4627 Condition R1	Environment and Sustainability Manager	EPA
Material harm report	Written details of notification of incidents causing or threatening material harm to the environment	Within 7 days of incident causing or threatening material harm	EPL #20772 & #4627 Condition R2	Environment and Sustainability Manager	EPA, DP&E
EPA requested report	As requested by the EPA	As required by EPA	EPL #20772 & #4627 Condition R3	Environment and Sustainability Manager	EPA
Noise and vibration reports	Submit a Preliminary Investigation Report and subsequent Follow-Up Investigation Report in respect of any noise or vibration monitoring undertaken in accordance with the EPL.	As requested by EPA	EPL #20772 & #4627 Condition R4	Environment and Sustainability Manager	EPA

Pre-Construction Compliance Report



2.5 Environmental auditing

Environmental audits will be conducted at regular intervals during construction of the project to ensure compliance. Internal and external environmental audits will be undertaken in accordance with AS/NZS ISO 19011.

An indicative audit schedule is included in Table 7.

Table 7: Indicative audit schedule

Audit	Details	Timing	Responsibility	Recipient of audit report
Internal audit	Compliance with approval and legal requirements, Roads and Maritime specifications, CEMP	Annually (alternate 6 monthly to the audit below)	Environment and Sustainability Manager	CDS-JV WCX M5 AT Environmental Representative
External audit	Compliance with EMS (ISO 14001) in accordance with CPB Contractors requirements	Annually (alternate 6 monthly to the audit above)	External independent auditor	CDS-JV WCX M5 AT Environmental Representative
External audit	Compliance with the CEMP in accordance with D&C Deed	Not exceeding every 5 months and 15 business days	WCX M5 AT External independent auditor	CDS-JV WCX M5 AT Independent Certifier Environmental Representative

The Proponent will undertake an independent environmental audit as required for the operational phase of the project. The details of the operational audit program would be provided to the Secretary prior to the commencement of operation.

Additional audit requirements identified in the CoA are summarised in Table 8.

Pre-Construction Compliance Report



Table 8: Additional audit requirements identified in the CoA

CoA ref	Audit details	Recipient of the audit report	Where addressed
Construction phase			
B31	<p>Site Audit Statement prepared by an accredited Site Auditor if remediation is required, verifying that the disturbed area has been or can be remediated to a standard consistent with the intended land use.</p> <p>Where land is remediated, a final Site Audit Statement will be prepared by an accredited Site Auditor, certifying that the contaminated disturbed areas have been remediated to a standard consistent with the intended land use.</p>	Final Site Audit Statement to be submitted to Secretary and relevant councils prior to operation of the project.	Construction Contamination Management Plan
B49	An independent Road Safety Audit(s) is to be undertaken by an appropriately qualified and experienced person during detailed design to assess the safety performance of any new or modified local road, parking, pedestrian and cycle infrastructure provided as part of the SSI	Audit findings and recommendations will be made available to the Secretary on request.	Construction Traffic Access and Management Plan
Operational phase			
E3	In tunnel air quality sampling points and visibility monitoring points established under this condition must be audited at least two months prior to commencement of monitoring. Verification and compliance auditing is to be undertaken by an independent person(s) or organisation(s) whose appointment has been approved by the Secretary.	N/A	OEMP
E12	Ambient air quality monitoring results must be subject to an independent audit at six-monthly intervals (or at a longer interval, if approved by the Secretary). The auditor must be approved by the Secretary in consultation with the NSW Environment Protection Authority and the project's Air Quality Community Consultative Committee (AQCCC),	The auditor's report must be directly provided to the Proponent and the AQCCC.	OEMP
E18	Ventilation outlet monitoring equipment must be independently audited prior to its commencement of monitoring. Auditing is to be undertaken by an independent person(s) or organisation(s) approved by the Secretary	N/A	OEMP
E26	Continuous emissions monitoring systems installed and operated as required by CoA E18 must undergo relative accuracy test audits at an interval not exceeding 12 months, or as otherwise agreed to by the Secretary in consultation with the EPA.	N/A	OEMP
E27	Conduct an audit of the air quality monitoring (in tunnel and external) at six-monthly intervals.	<p>All audit data will be available for inspection by the Secretary, upon request.</p> <p>A copy of the audit report must be issued to the Proponent and AQCCC.</p>	OEMP

Pre-Construction Compliance Report



CoA ref	Audit details	Recipient of the audit report	Where addressed
E40	Traffic mitigation measures recommended as part of the Road Network Performance Review Plan would be subject to independent road safety audits.	N/A	OEMP
E48	Prior to the opening of the project to traffic, a full audit of the fire and life safety system as defined by the fire engineering study developed in condition E42 must be undertaken by an Accredited Fire Engineer.	The results of the audit must be submitted to FRNSW prior to opening of the project to traffic.	OEMP
E51	Within 12 months of the commencement of operation, and at any other stage required by the Secretary, the Proponent must commission an Independent Environmental Audit of the SSI.	The Proponent must submit a copy of the audit report to the Secretary and relevant public authorities, together with its response to any recommendations contained in the audit report.	OEMP

Pre-Construction Compliance Report



3. Pre-Construction Activities

3.1 Nomination of Environmental Representative

In accordance with CoA D1 [REDACTED] was nominated as the Environmental Representative for the project and was approved by the Secretary of DP&E (under delegation) on 31 May 2016.

3.2 Pre-construction site activities

To date, the following activities have occurred in the field as part of early works:

- Geotechnical and hydrogeological investigations,
- Utility investigations
- Baseline surface water and groundwater monitoring
- Pre-clearance flora and fauna surveys, tree surveys and land use surveys
- Inspections and archival recording of heritage items
- Contaminated land and acid sulfate soils investigations
- Pre-establishment activities at the Arncliffe Construction Compound (C7) including installation of frog exclusion fencing and frog surveys

The following activities have occurred in the field as part of site establishment works:

- Site establishment at the Kingsgrove construction compounds (C1-C3) including tree clearing, installation of fences and access points, installation of alternate shared footpath/cycleway, installation of erosion and sedimentation controls.
- Site establishment at the Bexley construction compounds (C4-C6) including minor tree clearing, installation of fences and installation of erosion and sedimentation controls.
- Site establishment at the Arncliffe construction compound (C7) including installation of fencing (frog fencing and security fencing), installation of access points, tree clearing, installation of erosion and sed control, piling for golf netting, decommissioning and backfilling of ponds.
- Site establishment at the St Peters Interchange construction compounds (C8-C11) including installation of access roads, tree clearing, installation of fencing and access points and installation of erosion and sedimentation control.

3.3 Pre-construction Compliance Summary

Table 9 summarises the status of compliance against the project CoA and REMMs using the definitions provided in Section 2.1. Further details regarding status against each CoA and REMM are provided in Appendix A and Appendix B, respectively.

One non-compliance was observed during the reporting period against CoA D64. Refer to Appendix A (CoA D64) for details regarding this non-compliance.

Table 9: Compliance Summary

Status	CoA	REMM
Compliant	A1-A6, A8, A10, A11, A13, A14, A17 B10-B12, B14, B20-B23, B28, B29, B30-B37, B43-B44, B47-B49, B52-B55, B57-B60, B63, B64, B75 C1-C5 D1, D10, D11, D16, D17, D27, D37-D39, D42, D43, D47-D50, D52-D62, D66-D68	TT01-TT15, AQ01-AQ46, HH1, NV1-NV27, NV30, OpNV01, OpNV03, LP01-LP10, OpLP01, V01-V14, OpV01-OpV13, SE01-SE05, SW01-SW16, OpSW01, OpSW02, OpSW04-OpSW09, CM01-CM15, FD01-FD18, GW01-GW19, OpGW04, OpGW05, NAH01-NAH22, B01-B22, GHG1-GHG10, OpGHG1-OpGHG3, AH1-AH6, WM01-WM18, OpWM01-OpWM03, CC01-CC03, HR01-HR09, OpHR01-OpHR12, CI01-CI02
Verification	None	None
Non-compliant	D64	None

Pre-Construction Compliance Report



Status	CoA	REMM
Administrative non-compliance	None	None
Not triggered	A7, A9, A12, A15, A16 B1-B9, B13, B15-B19, B24-B27, B38, B39-B41, B42, B45, B46, B50, B51, B56, B61, B62, B65-B74 D2-D9, D12-D15, D18, D28-D36, D40, D41, D44-D46, D51, D65 E1-E51	OpTT01-OpTT03, NV28, NV29, NV31, OpNV02, OpLP02, OpSW03, OpCM1-OpCM4, OpFD01-OpFD06, OpGW01-OpGW03, OpB01
Observation	None	None

Pre-Construction Compliance Report



Appendix A: Minister's Conditions of Approval

Pre-Construction Compliance Report



Ref	Sub Ref	Condition of Approval	RELEVANT STAGE									Timing/phase	Secretary's Approval Required?	Date of first submission	Date of amended submission	Date of Approval	Date completed	Compliance Status	Responsibility	Comment / evidence
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
A1		In addition to meeting the specific performance criteria established under this approval, the Proponent must implement all feasible and reasonable measures to prevent and/or minimise any harm to the environment that may result from the construction or operation of the SSI.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	Specific performance criteria and reasonable and feasible measures have been incorporated into the Project's system documentation including the Construction Environmental Management Plan (M5N-EN-PLN-PWD-0001; CEMP). Ongoing compliance with the CEMP and other associated documents shall be tracked throughout construction and operation (where applicable).
A2		The Proponent must carry out the SSI in accordance with the conditions of approval and generally in accordance with the:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	The CEMP and associated sub plans include the relevant management measures required to undertake the project in accordance with the requirements of CoA A2(a-e). The approved Compliance Tracking Program (CTP) is the document that is used to describe how compliance shall be monitored and tracked. No Non-Compliances against the management measures have occurred during the Pre-construction period. Compliance details are provided in this Pre-Construction Compliance Reports. In accordance with the requirements of condition A14, subsequent ongoing Quarterly Compliance Reports and a Pre-Operational Compliance Report will be submitted to DP&E to provide regular updates on compliance for the project. Compliance with this condition is ongoing throughout the New M5 project works.
A2	(a)	State significant infrastructure application (SSI 6788);																		
A2	(b)	New M5 Environmental Impact Statement - Volumes 1A, 1B, 1C, 2A, 2B, 2C, 2D, 2E, 2F, 2G and 2H prepared by AECOM Australia, dated November 2015;																		
A2	(c)	New M5 Submissions Report - Volumes 1A, 1B and 2 prepared by AECOM Australia, dated March 2016;																		
A2	(d)	WestConnex New M5 Addendum to the Submissions and Preferred Infrastructure Report - Temporary Construction Power Enabling Works prepared by RMS, dated April 2016;and Supplementary material provided as an addendum to the New M5 Submissions and Preferred Infrastructure Report.																		
A2	(e)																			
A3		In the event of an inconsistency between:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	Noted and shall be implemented throughout construction of the project. Compliance with this condition is ongoing throughout the New M5 project works. Inconsistencies will be identified in the CTP and reported quarterly in Construction Compliance Reports.	
A3	(a)	the conditions of this approval and any document listed in condition A2 inclusive, the conditions of this approval will prevail to the extent of the inconsistency; and																		
A3	(b)	any document listed in condition A2(a) to A2(e) inclusive, the most recent document will prevail to the extent of the inconsistency.																		
A4		The Proponent must comply with any reasonable requirement(s) of the Secretary arising from the Department's assessment of:	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	Noted and shall be implemented throughout construction of the project. Compliance with this condition is ongoing throughout the New M5 project works. CDS-JV will incorporate any reasonable requirements from the Secretary in relation to project documentation and systems.	
A4	(a)	any reports, plans or correspondence that are submitted in accordance with this approval; and																		
A4	(b)	the implementation of any actions or measures contained in these reports, plans or correspondence.																		
A5		This approval will lapse five years after the date on which it is granted, unless the works of this SSI approval are physically commenced on or before that date.	Y	N	N	N	N	N	N	N	Commence works covered by approval	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	Noted. Establishment works for the project commenced in July 2016. Construction works are expected to commence in August 2016, pending DPE approval of the CEMP.	



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A6		Where requested by the Secretary, the Proponent must provide evidence as to how feasible and reasonable measures were considered and taken into account. <i>Note: Community expectations must be taken into account but it is not expected that specific community consultation will be required in every instance.</i>	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	Noted and shall be implemented throughout construction of the project. Compliance with this condition is ongoing throughout the New M5 project works. No requests have been made in relation to this condition in the pre-construction period.
A7		This approval does not apply to the establishment of ancillary facilities where establishment has been assessed in accordance with any applicable requirements of the Environmental Planning and Assessment Act 1979 and site establishment works commenced prior to commencement of construction.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Prior to the issue of planning approval	N	N/A	N/A	N/A	N/A	N/A	WCX M5 AT CDS-JV RMS	No assessment or approvals were obtained for establishment of ancillary facilities under parts of the EP&A Act other than Part 5.1 State significant infrastructure (i.e. this approval). The establishment of ancillary facilities will be undertaken in accordance with the approved AFMP (M5N-ES-PLN-PWD-0026) and any subsequent revisions/addenda. Addendum 1 of the AFMP has been approved by DPE, and includes the provision of HV power to ancillary facilities.
A8		The Proponent must ensure that all licences, permits and approvals are obtained as required by law and maintained as required throughout the life of the SSI. No condition of this approval removes the obligation for the Proponent to obtain, renew or comply with such licences, permits or approvals.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV RMS	The CEMP identifies the legislative and other requirements of the Project, including required licences, permits and approvals. The CTP and associated compliance reports track compliance with all identified approvals. Approvals obtained to date include: <ul style="list-style-type: none"> SSI Approval (SSI 6788), ie this approval, dated 20 April 2016 Environment Protection Licence (EPL 20772) dated 17 May 2016, Environment Protection Licence (EPL 4627) dated 20 June 2016, EPBC Approval, dated 11 July 2016.
A9		This approval does not apply to the operation of off-site spoil receiving locations and facilities. The receipt of spoil at these location and facilities must be undertaken in accordance with approvals or licences applying to those locations or facilities.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Tunnelling and Excavation	N	N/A	N/A	N/A	N/A	N/A	CDS-JV	All spoil management, including approvals checks for receiving sites, will be undertaken in accordance with the Project Spoil Management Plan, as required by CoA D51. The Spoil Management Plan will be lodged with DP&E for approval one month prior to commencement of tunnelling, which is estimated to be in September 2016.
A10		The Proponent may elect to construct and/or operate the SSI in stages. Where staging is proposed, the Proponent must submit a Staging Report to the Secretary prior to the commencement of each proposed stage. The Staging Report must provide details of:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	Report #1: 24/06/2016	Pending	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV RMS	The Proponent has notified the Secretary that they intend to stage the project, by way of the Staging Report. The first stage has commenced in July 2016 and includes site establishment of the construction compounds (C1 – C11) and installation of HV power to construction compounds; the second stage is expected to commence in August 2016 and include continuation of establishment activities as well as all surface construction activities; the third stage is expected to commence in September 2016 and will include tunnelling activities including roadheader excavation. The major stages are further broken down into substages as described in the Staging Report. The Staging Report identifies how each condition applies to each of the stages and how each condition will be complied with during during the applicable stages.
A10	(a)	how the SSI would be staged, including general details of work activities associated with each stage and the general timing of when each stage would commence; and																		
A10	(b)	details of the relevant conditions of approval, which would apply to each stage and how these will be complied with across and between the stages of the SSI.																		

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
A10		Where staging of the SSI is proposed, these conditions of approval are only required to be complied with at the relevant time and to the extent that they are relevant to the specific stage(s).																		
A11		The Proponent must ensure that any strategy, plan, program, or other document, required by the conditions of this approval is submitted to the Secretary no later than one month prior to the commencement of construction or of the relevant stage(s), if the SSI is to be staged, (as identified in the Staging Report), unless otherwise agreed by the Secretary. While any strategy, plan or program may be submitted on a progressive basis, the Proponent will need to ensure that the activities on site are covered by relevant and suitable strategies, plans or programs at all times; and If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction	N	N/A	N/A	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV RMS	Noted.
A12		The Proponent will be responsible for any breaches of the conditions of approval resulting from the actions of all persons that it invites onto the site, including contractors, sub-contractors and visitors.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	All CDS-JV employees, subcontractors and visitors are required to attend project inductions, training and awareness sessions in accordance with Element 7 of the CEMP. Ongoing and regular inspections, monitoring and audits of works associated with the project will be undertaken in accordance with Element 12 of the CEMP to verify compliance with all approvals, legal and other requirements. No breaches have occurred in relation to this condition during the reporting period. Any future breaches of conditions or other project requirements will be documented in the quarterly construction compliance reports required by condition A14.
A13		In the event of a dispute between the Proponent and another public authority in relation to an applicable requirement in this approval, either party may refer the matter to the Secretary for resolution. The Secretary's determination of any such dispute will be final and binding on the parties unless further statutory approval is required.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	Disputes will be managed in accordance with the Community Communications Strategy (M5N-CS-PLN-PWD-0008) and this condition. No disputes which require DP&E resolution have occurred during the reporting period.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
A14		The Proponent must prepare and implement a Compliance Tracking Program to track compliance with the requirements of this approval. The Compliance Tracking Program must be submitted to the Secretary for approval prior to the commencement of construction and operate for a minimum of 24 months following commencement of operation, subject to the Secretary's review of the outcomes of the Independent Environmental Audit Report required by condition E51. The operation of the program may be extended if the Secretary determines that there has been unsatisfactory compliance. The Compliance Tracking Program must include, but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	Y	8/06/2016	21/07/2016	25/07/2016	Ongoing	Compliant	WCX M5 AT CDS-JV RMS	A Compliance Tracking Program (CTP) has been developed by CDS-JV to track compliance with the conditions of approval and other project requirements. Section 2.1 of the CTP addresses notification requirements. Section 2.2 addresses the periodic review of compliance status. Section 2.3 addresses the periodic reporting of compliance status. Section 2.4 addresses environmental auditing. Section 2.5 addresses the recording and reporting of environmental incidents. Section 2.6 addresses the management of non-conformances. Section 2.7 addresses training and awareness requirements for the project. The Construction Compliance Reports (which include this pre-construction compliance report) provide a summary of compliance with all project requirements throughout the construction period. The CTP was submitted to DP&E on 8/06/2016 and was approved by DP&E on 25/07/2016. The CTP will operate for a minimum of 24 months following commencement of operation. The Pre-construction Compliance Report was submitted to DP&E on 17/06/2016. DP&E requested resubmission of the PCCR on 25/07/2016 and an updated PCCR (Revision 4) was submitted on 3/08/2016. DP&E provided comments on Revision 4 of the PCCR on 12/09/2016. This revision 5 of the PCCR addresses DP&E comments.
A14	(a)	provision for the notification of the Secretary prior to the commencement of construction and prior to the commencement of operation of the SSI (including prior to each stage, where works are being staged);	N	N	N	Y	N	N	N	N	Y	N	Pending	N/A	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV RMS		
A14	(b)	provision for periodic review of the compliance status of the SSI against the requirements of this approval and the environmental management measures committed to in the document referred to in condition A2(c);	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N/A	N/A	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV RMS		
A14	(c)	provision for periodic reporting of compliance status to the Secretary, including but not limited to –																WCX M5 AT CDS-JV RMS		
A14	(c)	(i) a Pre-Construction Compliance Report prior to the commencement of construction;	Y	Y	Y	N	N	N	N	N	N	N	17/06/2016	3/08/2016 13/09/2016	N/A	13/09/2016	Compliant	WCX M5 AT CDS-JV RMS		
A14	(c)	(ii) quarterly Construction Compliance Reports, for the duration of construction, and	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Pending	N/A	N/A	Not yet complete	Compliant	WCX M5 AT CDS-JV RMS		
A14	(c)	a Pre-Operation Compliance Report prior to the commencement of operation; and six monthly operational compliance reports	N	N	N	N	N	N	N	N	Y	N	Pending	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV RMS		
A14	(d)	a program for independent environmental auditing in accordance with AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems;	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS		
A14	(e)	mechanisms for recording environmental incidents during construction and actions taken in response to those incidents;	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS		
A14	(f)	provision for reporting environmental incidents to the Secretary during construction, in accordance with conditions A15 and A16;	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS		
A14	(g)	procedures for rectifying any non-compliance identified during environmental auditing, review of	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS		

Pre-Construction Compliance Report



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A14	(h)	compliance or incident management; and provision for ensuring all employees, contractors and sub-contractors are aware of, and comply with, the conditions of this approval relevant to their respective activities	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	N/A	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	
A15		The Proponent must notify the EPA in relation to any pollution incident in carrying out the SSI as required by the Protection of the Environment Operations Act 1997. The Proponent must provide the Secretary with a record of any such notification.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT CDS-JV RMS	No pollution incidents occurred during the period to which this report applies. Where required in accordance with the EPL (EPL 20772 & EPL 4627), the Incident Management Plan (M5N-HS-PLN-PWD-003) and the POEO Act, notification to the EPA will be undertaken for any non-conformances with the conditions of the EPL and pollution incidents. The Secretary will also be provided with a record of any such notifications, as detailed in Element 9 of the CEMP.
A16		The Proponent must notify the Secretary (using the contact name and phone number notified by the Department from time to time) of any incident (other than those relating to the Protection of the Environment Operations Act 1997) with actual, or potential, significant off-site impacts on people or the biophysical environment immediately of becoming aware of the incident on weekdays, or the following business day on weekends, public holidays and site shutdown. The Proponent must provide full written details of the incident to the Secretary within seven days of the date on which the incident occurred.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT CDS-JV RMS	No incidents occurred during the period to which this report applies. CDS-JV will notify the Secretary of any incident (other than those relating to the POEO Act) with actual or potential significant off-site impacts on people or the biophysical environment in accordance with Element 9 of the CEMP. CDS-JV will provide the Secretary with records of any notification of incidents to the EPA.
A17		The Proponent must meet the requirements of the Secretary or relevant public authority (as determined by the Secretary) to address the cause or impact of any incident, as it relates to this approval.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT CDS-JV RMS	No incidents occurred during the period to which this report applies. Incidents will be investigated as detailed in Section 9 of the CEMP, and where requested by the Secretary or relevant public authority, additional requirements will be incorporated into the investigation.
B1		The ventilation outlets must be constructed at the locations specified in Appendices A, B and C.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	Detailed design for the ventilation outlets is progressing and outlets will be constructed in accordance with this Condition. Issued for Construction (IFC) Design is expected March – May 2017.
B2	(a)	Unless otherwise approved by the Secretary, the ventilation outlets must be constructed at an approximate height of: the Kingsgrove ventilation outlet: RL 53 metres (AHD) being a height of 30 metres above the ground in the location shown in Figure 1 in Appendix A;	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	Detailed design for the ventilation outlets is progressing and outlets will be constructed in accordance with this Condition. (a) Kingsgrove Ventilation Outlet IFC Design is expected in April 2017 (b) Arncliffe Ventilation Outlet IFC Design is expected in May 2017 (c) St Peters Ventilation Outlet IFC Design is expected in March 2017
B2	(b)	the Arncliffe ventilation outlet: RL 39 metres (AHD) being a height of 35 metres above the ground in the location shown in Figure 2 in Appendix B; and	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	

Pre-Construction Compliance Report



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B2	(c)	the St Peters ventilation outlet: RL 25.5 metres (AHD) being a height of 20 metres above the ground in the location shown in Figure 3 in Appendix C.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	
B3		The ventilation outlet exit plane must have a minimum exit velocity or variable velocity, as detailed in the WestConnex New M5 Air Quality Assessment Report (RMS, 2015) (a component of the documents listed in condition A2), to be determined in the Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol required under condition B7. This is unless an equivalent or better environmental outcome than presented in the Proponent's most up to date air assessment can be demonstrated to the Secretary, in consultation with the EPA.	N	N	N	N	N	N	N	N	Y	Detailed Design	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Developed Concept Ventilation Report for the ventilation outlets is expected in August 2016 and will be designed and constructed in accordance with this Condition.
B4		The tunnel ventilation system must be designed, constructed and operated to only release emissions from the ventilation outlets referred to in condition B2, and to avoid emissions from the portals and/or the emergency smoke extraction facilities at Bexley and Arncliffe. Emissions from the emergency smoke extraction facilities are excepted for emergency smoke management purposes in the event of a fire in the tunnel and periodic testing of the system as defined in the Operation Environmental Management Plan required under condition E31(g).	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Ongoing	Not yet triggered	CDS-JV WCX M5 AT	Developed Concept Ventilation Report for the ventilation outlets is expected in August 2016 and will be designed and constructed in accordance with this Condition.
B5		The tunnel must be designed and constructed so as to allow for future modification of the ventilation system if required. The Proponent must submit a report to the Secretary demonstrating how this will be allowed for prior to finalising detailed design	N	N	N	N	N	N	N	N	Y	Construction	N	Pending	N/A	N/A	Ongoing	Not yet triggered	CDS-JV	Noted. The tunnel will be designed and constructed so as to allow for potential future modification of the ventilation system. The Ventilation Design Report will contain a section to demonstrate compliance with this condition and will be submitted to the Secretary prior to finalising the detailed design.
B6		The Proponent must install ventilation outlet emission sampling points and associated safe access thereto, during construction of the ventilation outlet. The sampling points must be designed and located in accordance with the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA, 2007, or as updated), or an equivalent methodology approved by the Secretary in consultation with the EPA.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	The tunnel shall be designed and constructed so as to allow for sampling of the ventilation system. This shall be detailed in the In-stack Air Monitoring Report. Installation of emission sampling points will be reported on in the relevant quarterly compliance report.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11										2E: C12-C14
B7		<p>Prior to operation, the Proponent must prepare and implement a Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol in consultation with the Transport Management Centre. The Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol must be reviewed by a suitably qualified and experienced independent ventilation specialist to confirm that, before the tunnel is open to traffic, the ventilation/traffic management systems would operate together to ensure that the conditions of this approval are met. The Protocol should include a commissioning procedure to be completed before the tunnel is opened to traffic. The Protocol must be submitted to the Secretary for approval at least six months prior to the operation of the SSI.</p> <p><i>Note:</i> Tunnel ventilation design and operation, incident response triggers and procedures, and traffic management, should be fully integrated in accordance with the primary objective of ensuring the safety of motorists in the tunnel.</p>	N	N	N	N	N	N	N	Y	Prior to operation	Y	Pending	N/A		Not yet complete	Not yet triggered	CDS-JV	The Developed Concept Design Tunnel Ventilation, Incident Response and Traffic Management Systems Integration Protocol is expected in November 2016 will be prepared prior to operation and reported on in the pre-operation compliance report.
B8		<p>Prior to operation, the Proponent must install permanent signage at each tunnel entrance and use variable messaging signage provided at regular intervals throughout the tunnel to instruct tunnel users to close windows and turn on recirculated air. Relevant information about this instruction is to be provided on a website, operated by the Proponent, which is maintained throughout operation of the SSI.</p>	N	N	N	N	N	N	N	Y	Prior to operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV WCX M5 AT	<p>Driver Advisory ITS Signage IFC Design is expected in May 2017. Signage will be specified and installed in accordance with this Condition.</p> <p>Compliance with this condition will be reported on in the pre-operation compliance report.</p>
B9	(a)	<p>Prior to finalising the detailed design of the SSI and establishing the ambient air quality monitoring stations required under condition E10 the Proponent must establish an Air Quality Community Consultative Committee (AQCCC) to provide input prior to and during the operation of the SSI. The AQCCC must:</p> <p>be comprised of -</p> <p>(i) two representatives from the Proponent and tunnel operator;</p> <p>(ii) one representative from each of the relevant councils, whose attendance is only required when considering matters relevant to their respective local government area;</p>	N	N	N	Y	Y	Y	Y	Y	Y	Y	N/A	N/A	N/A	Ongoing	Not yet triggered	WCX M5 AT CDS-JV RMS	The AQCCC will be set up prior to the establishment of the ambient air quality monitoring stations and will be operated in accordance with this condition.

Pre-Construction Compliance Report



Ref	Sub Ref	Condition of Approval	RELEVANT STAGE								Timing/phase	Secretary's Approval Required?	Date of first submission	Date of amended submission	Date of Approval	Date completed	Compliance Status	Responsibility	Comment / evidence	
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14										3 (Tunnels)
B9		(iii) three representatives from the local community adjacent to the St Peters ventilation facility or three representatives from the local community adjacent to the Kingsgrove ventilation facility or three representatives adjacent to the Ancliffe ventilation facility whose attendance is only required when considering matters relevant to their respective local area, and whose appointment has been approved by an expression of interest process conducted by the Proponent in consultation with the Secretary, and a Chair who is an independent party put forward by the Proponent and approved by the Secretary;																		
B9	(b)	meet at least four times a year, or as otherwise agreed by the chair and the Secretary;																		
B9	(c)	review and provide advice on the location of the air quality monitoring stations required under condition E10, operation environmental management plans and other operation stage documents, compliance tracking reporting, audit reports, or complaints as they relate to air quality; and																		
B9	(d)	provide advice on the dissemination of monitoring results and other information on air quality issues																		
B9		The AQCC must operate for up to two years after commencement of operation, or as otherwise approved or directed by the Secretary, in consultation with the Chair.																		
B10		The Proponent must offset the entire community of the Environmental Protection and Biodiversity Conservation Act 1999 listed Cooks River/Castlereagh Ironbark Forest Critically Endangered Ecological Community located at the site adjacent to Rosebank Avenue between Beverly Grove and Canterbury Golf Course. Construction works involving impacts to the listed community must not commence until the offsets required have been fully identified and evidence provided that they should be achievable. All ecosystem credits proposed to provide biodiversity offsets for this community must be generated by native vegetation meeting the definition of this ecological community under the Environment Protection and Biodiversity Conservation Act 1999. Calculation of the credits required for that part of the community not directly impacted by the project (approximately	N	N	N	Y	N	N	N	N	N	Construction	N	N/A	N/A	N/A	Not yet complete	Compliant	WCX M5 AT	A Biodiversity Offset Package is being developed generally in accordance with the Biodiversity Offset Strategy included in Appendix T of the EIS. The entire Cooks River/Castlereagh Ironbark Forest Critically Endangered Ecological Community (approximately 1.8 hectares) will be offset, in accordance with this condition. This is described in Section 6.4 of the approved Construction Flora and Fauna Management Plan (M5N-ES-PLN-PWD-0007). The site establishment works described in the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) in the vicinity of the Cooks River / Castlereagh Ironbark Forest, have been confirmed by the project ecologist to have no impact on this ecological community. No works will commence that may impact on this ecological community until evidence that the offsets are able to be achieved has been provided to DPE.



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		0.4 hectares) is to be calculated using a pro-rata assessment (i.e. approximate 0.4 hectares divided by area of community directly impacted).																		
B11		The Proponent must offset impacts to the Paperbark Swamp Forest and Green and Golden Bell Frog in accordance with the requirements of the Framework for Biodiversity Assessment.	N	N	N	N	Y	N	N	N	Construction	N	N/A	N/A	N/A	Not yet complete	Compliant	WCX M5 AT CDS-JV	Impacts to the Paperbark Swamp Forest and Green and Golden Bell Frog will be offset in accordance with the methodology outlined in the Biodiversity Offset Strategy included in Appendix T of the EIS, which is in accordance with the Framework for Biodiversity Assessment. This will be detailed in the Biodiversity Offset Package in accordance with condition B13.	
B12		The Proponent must prepare a report which details the progress made towards securing the offsets described in the Biodiversity Offset Strategy presented in the document referred to in condition A2(b) and required by conditions B10 and B11. The report must be submitted to the Secretary for approval prior to the commencement of any works that may impact on the vegetation communities and Green and Golden Bell Frog and its habitat.	N	N	N	Y	N	Y	N	N	Construction	Y	11/05/2016	N/A	31/05/2016	31/05/2016	Compliant	WCX M5 AT CDS-JV	An offset report that details progress on securing the offsets as per conditions B10 and B11 has been approved by the Secretary, DP&E on 31/05/2016, which describes progress towards securing offsets for the two ecological communities described in the Biodiversity Offset Strategy and the Green and Golden Bell Frog and its habitat.	
B13	(a)	Within 12 months of the commencement of construction, unless otherwise agreed by the Secretary, the Proponent must develop and submit to the Secretary for approval, a Biodiversity Offset Package. The Package must be prepared in consultation with OEH and DoE and confirm how the impacts of the SSI will be offset. The Package must be consistent with the biodiversity offset strategy requirements of the NSW Biodiversity Offsets Policy for Major Projects (OEH, 2014). The Package must include, but not necessarily be limited to: identification of the number of biodiversity credits required to offset the impacts of the SSI;	N	N	N	Y	Y	Y	Y	Y	Detailed Design, Operation	Y	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	A Biodiversity Offset Package is under development and is being prepared in consultation with OEH and DoE. The Package is being prepared in accordance with the Biodiversity Offset Strategy outlined in Appendix T of the EIS. Total offsets for the Cooks River/Castlereagh Ironbark Forest Critically Endangered Ecological Community will also be developed in accordance with condition B10. The Package will be submitted to DP&E within 12 months of the commencement of construction.	

Pre-Construction Compliance Report



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B13	(b)	details on the biodiversity credits identified to offset the impacts of the SSI and evidence that they can be attained and secured in accordance with the NSW Biodiversity Offsets Policy for Major Projects; and																
B13	(c)	for offsets not secured through the retirement of biodiversity credits, details on the supplementary measures that would be implemented to offset the residual impacts, in accordance with Appendix B of the NSW Biodiversity Offsets Policy for Major Projects and the Framework for Biodiversity Assessment (OEH, 2014). All required offsets must be secured within two years of the commencement of construction unless otherwise agreed by the Secretary, in consultation with the OEH and DoE. The Proponent must submit to the Secretary and DoE a copy of the credit retirement report issued by the OEH once the offsets are secured, within one month of receiving the report. Should supplementary measures be proposed, the Package must also provide details on:																
B13	(a)	the management and monitoring requirements for compensatory habitat works and other biodiversity offset measures proposed to ensure the outcomes of the package are achieved, including:																
B13	(i)	the monitoring of condition of species and the ecological communities at offset (including translocation) locations,																
B13	(ii)	the methodology for the monitoring program(s), including the number and location of offset monitoring sites, and the sampling frequency at these sites;																
B13	(iii)	provisions for the annual reporting of the monitoring results to the Department, OEH and DoE and the public for a set period of time, as determined in consultation with OEH and DoE;																
B13		timing and responsibilities for the implementation of the supplementary measures; and																
B13	(b)	processes and/or measures that would be implemented to ensure that any land offsets are protected and managed in perpetuity.																
B13		The supplementary measures must be implemented by the Proponent according to the timeframes set out in the Biodiversity Offset Package, unless otherwise agreed by the Secretary.																

Pre-Construction Compliance Report



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B14		The Proponent must prepare and submit to the Secretary for approval an updated Green and Golden Bell Frog Plan of Management for the Arncliffe population of Green and Golden Bell Frog prior to commencing construction at the Arncliffe construction compound. The Plan must be developed from the Green and Golden Bell Frog Management Plan presented in the document referred to in condition A2(b), by a suitably qualified and experienced frog specialist, in consultation with OEH. The updated Plan must include, but not necessarily be limited to:	N	N	N	N	N	Y	N	N	N	Pre-construction Construction	Y	9/05/2016	N/A	17/05/2016	17/05/2016	Compliant	WCX M5 AT	The updated Green and Golden Bell Frog Plan of Management (GGBF PoM) was approved by the Secretary, DP&E on 17 May 2016. The Plan was developed in consultation with OEH and in accordance with this condition. Construction is expected to commence at the Arncliffe construction compound in August 2016. The Plan will be implemented during the construction phase. Pre-establishment activities as described in the approved Arncliffe Construction Compound Sub-plan (ACCSP; M5N-ES-PLN-ARN-0001; refer condition D58) have been undertaken for management of the Green and Golden Bell Frog at the site. The written approval of the RMS Herpetologist has been obtained and was provided to DP&E on 27/07/16. Establishment activities have commenced at the site in accordance with the GGBF PoM and the ACCSP.
B14	(a)	an adaptive monitoring program to assess the effectiveness of the construction and operational mitigation measures and ongoing survival of the Arncliffe population at the Kogarah Golf Course. The monitoring program must –																		
B14		(i) detail the monitoring that would be undertaken during construction to ascertain the effectiveness of the on-site management and mitigation measures at limiting impacts on the Green and Golden Bell Frogs, NSW Government Department of Planning and Environment																		
B14		(ii) include provision for ongoing monitoring of the Arncliffe population during operation of the SSI until such time as the use and effectiveness of the proposed mitigation measures can be demonstrated to have been achieved over a minimum of three generations of frogs, unless otherwise agreed by the Secretary in consultation with OEH																		
B14		(iii) nominate the performance criteria against which the ongoing survival of the Arncliffe population at the Kogarah Golf Course will be measured during construction and operation of the SSI, and the timing and responsibilities for monitoring during construction and operation,																		
B14		(iv) include goals and performance indicators to measure the effectiveness of the mitigation measures that are specific, measurable, achievable, realistic and timely (SMART),																		
B14		(v) provide details of contingency measures and corrective actions that would be implemented in the event of reductions in population numbers, habitat usage and distribution and movement of the Green and Golden Bell Frog, and address densities, distribution and habitat use;																		

Pre-Construction Compliance Report



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B14	(b)	evidence of consultation with the OEH and how its comments have been addressed in the updated Plan;																	
B14	(c)	mechanisms for the ongoing monitoring, review and amendment of this Plan; and																	
B14	(d)	mechanisms for annual reporting of the monitoring results to the Secretary and publication of the annual report on the Proponent's website.																	
B14		The Green and Golden Bell Frog Management Plan must be implemented.																	
B15	(a)	The Proponent must prepare and submit to the Secretary for approval within three months of the commencement of construction of the SSI, unless otherwise agreed by the Secretary, an updated Habitat Creation and Captive Breeding Plan. The Plan must be developed from the Habitat Creation and Captive Breeding Plan - Green and Golden Bell Frog at Arncliffe presented in the document referred to in condition A2(c), by a suitably qualified and experienced frog specialist, in consultation with OEH. The updated Plan must include, but not necessarily be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT
B15		an adaptive monitoring program to assess the success of the habitat creation and survival and breeding of the released Green and Golden Bell Frog population at the created Marsh Street habitat area. The monitoring program must include –																	
B15		(i) details on the monitoring that would be undertaken to ascertain the effectiveness of the breeding plan, colonisation of the Marsh Street habitat and connectivity with the Kogarah Golf Course;																	
B15		(ii) provision for ongoing monitoring of the Green and Golden Bell Frog population, including densities, distribution and habitat use;																	
B15		(iii) the performance criteria against which the ongoing survival of the frog population will be measured;																	
B15		(iv) performance indicators that are specific, measurable, achievable, realistic and timely (SMART);																	
B15		(v) details on the timing and responsibilities for monitoring, and details of contingency measures and corrective actions that would be implemented in the event of reductions in population numbers, habitat usage and distribution and movement of the Green and Golden Bell Frog;																	

Pre-Construction Compliance Report



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B15	(b)	details on the husbandry protocols that would be implemented including the experts involved and facility that would conduct the captive breeding program;																		
B15	(c)	adherence to the Guidelines for minimising disease risks associated with captive breeding, raising and restocking programs for Australian frogs (Murray et al, 2011);																		
B15	(d)	processes to ensure that frogs are also available for release at the breeding ponds at the Kogarah Golf Course in the event that the existing population becomes extinct;																		
B15	(e)	detailed disease and predator protocols for the released frogs;																		
B15	(f)	processes for certifying that imported landscaping materials are disease free;																		
B15	(g)	ongoing maintenance and management procedures for the Marsh Street habitat and Green and Golden Bell Frog Population, including timing and responsibilities; and																		
B15	(h)	evidence of consultation with the OEH and how its comments have been addressed in the updated Plan;																		
B15	(i)	responsibilities for the timing and implementation of the Plan;																		
B15	(j)	mechanisms for the ongoing monitoring, review and amendment of this Plan; and																		
B15	(k)	mechanisms for annual reporting of the monitoring results to the Secretary and publication of the annual report on the Proponent's website.																		
B15		The Habitat Creation and Captive Breeding Program must be implemented and the Marsh Street habitat area established within 12 months of the commencement of construction, unless otherwise agreed by the Secretary.																		
B16		Where the results of monitoring undertaken in accordance with condition B14(i) indicates that the implemented mitigation measures at the Kogarah Golf Course are ineffective or adverse changes to the population have occurred, the Proponent must provide the Secretary, within one month of recording the changes, notification of the adverse changes and details of the corrective actions/management measures that are proposed to be implemented. The corrective actions/management measures must be developed in consultation with the OEH.	N	N	N	N	N	Y	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT CDS-JV	Monitoring will be undertaken in accordance with the Green and Golden Bell Frog Plan of Management (approved by the Secretary on 17/05/16). Where the nominated performance indicators demonstrate management measures are being ineffective or adverse changes are occurring, notification and corrective actions as required by this condition will be undertaken.

Pre-Construction Compliance Report



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B16		For the purpose of this condition, an 'adverse change' means an observed change in the abundance, growth or structure of the Arncliffe population of Green and Golden Bell Frogs. This includes, but is not limited to:																		
B16	(a)	a decrease in the overall abundance of Green and Golden Bell Frogs in the Arncliffe population;																		
B16	(b)	a shift in the population structure, such as a proportional decrease in the number of sexually mature males or females;																		
B16	(c)	a change in the population growth, such as the documented loss of cohorts of adults and/or juveniles from the [Arncliffe] population; and/or																		
B16	(d)	an increase in the occurrence of a known threat to the survival of individuals of this species at each life stage, including but not limited to the presence of Plague Minnow (<i>Gambusia affinis</i>) and/or Chytrid Fungus (Phylum chytridiomycota).																		
B17		If, after 12 months, the corrective actions/mitigation measures are shown to be unsuccessful, the Proponent must submit to the Secretary, for approval, a further offset for the impacts to that part of the Arncliffe population occurring at the Kogarah Golf Course. The approved offset must be in place within 12 months of the Secretary's approval, unless otherwise agreed by the Secretary. The offset must require the retirement of Green and Golden Bell Frog species credits calculated in accordance with the Framework for Biodiversity Assessment, from a BioBanking agreement that includes a breeding site for this species.	N	N	N	N	N	Y	N	N	Y	Construction & Operation if triggered	Y	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT	Further offsets will be provided in accordance with this condition if required.
B18		In the event that the existing Arncliffe population at the Kogarah Golf Course becomes extinct, in addition to the additional offset requirements of condition B17, the Proponent must prepare and implement a program for the release of Green and Golden Bell Frogs from the captive breeding program (undertaken in accordance with condition B15) into the Kogarah Golf Course. The release program must be developed in consultation with the OEH and submitted to the Secretary for approval within 12 months of the local extinction being recorded and before the frogs are released. The release program must be implemented.	N	N	N	N	N	Y	N	N	Y	Construction & Operation if triggered	Y	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT	A program for the release of Green and Golden Bell Frogs will be developed as required by this condition should the existing population become extinct.



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B19		In the event that the release of Green and Golden Bell Frogs from the captive breeding program is unsuccessful, the Proponent must investigate translocation from an alternate population. Any translocation would require licensing under the National Parks and Wildlife Act 1974.	N	N	N	N	N	Y	N	N	Y	Construction, operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT	Options for translocation will be investigated should the release of Green and Golden Bell Frogs required in the case of condition B18 be unsuccessful.	
B20		Except as may be provided by an EPL, the SSI must be constructed and operated to comply with section 120 of the Protection of the Environment Operations Act 1997, which prohibits the pollution of waters.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction, construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	The project will be designed and constructed to avoid water pollution. A Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005) has been approved as part of the CEMP and will be implemented during construction. The CSWQSP includes environmental measures to control and manage construction water (Section 7). The Project has obtained EPLs (#20772 and #4627) and all discharge to waterways will be in accordance with the Manage Soil and Water Procedure (M5N-ES-PRC-PWD-0035) to meet the limits set in the EPLs. Notification to the EPA will be undertaken in the event of a pollution incident as required by the EPLs. No breaches have occurred in relation to this condition during the reporting period.	
B21		All activities taking place in, on or under waterfront land, as defined in the Water Management Act 2000 should be conducted generally in accordance with the Guidelines for Controlled Activities on Waterfront Land (DPI, 2012).	Y	Y	Y	Y	Y	N	N	Y	Y	Pre-construction, construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	This requirement has been addressed in detailed design and Sections 5.7 and 7.1 of the approved CSWQSP (M5N-ES-PLN-PWD-0005) and the approved Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007). Compliance with this condition will be reported in subsequent quarterly compliance reports.	
B22		Watercourse crossings, including temporary work platforms, waterway crossings and/or coffer dams, where feasible and reasonable, must be consistent with the NSW Guidelines for Controlled Activities Watercourse Crossings (DPI, 2012), Why do Fish Need to Cross the Road? Fish Passage Requirements for Waterway Crossings (Fairfull and Witheridge, 2003), Policy and Guidelines for Fish Friendly Waterway Crossings (NSW Fisheries February, 2004), and Policy and Guidelines for Fish Habitat Conservation and Management (DPI Fisheries, 2013). Where multiple cell culverts are proposed for crossings of fish habitat streams, at least one cell must be provided for fish passage, with an invert or bed level that mimics watercourse flows.	N	N	N	Y	Y	Y	Y	Y	N	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement has been addressed in detailed design and Sections 5.7 and 7.1 of the approved CSWQSP (M5N-ES-PLN-PWD-0005). Any proposed work platforms / temporary crossings or coffer dams will be designed in accordance with the referenced documents. Compliance with this condition will be reported in subsequent quarterly compliance reports.	

Pre-Construction Compliance Report



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B23		A Flood Mitigation Strategy must be prepared and implemented in respect of the flood prone land and overland flow paths for the waterways and catchments in the vicinity of the SSI. The Flood Mitigation Strategy must be designed to ensure that the SSI, where feasible and reasonable, does not worsen existing flooding characteristics in the vicinity of the SSI during construction and operation. The Flood Mitigation Strategy must include but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Prior to commencement of works which have been identified in the documents listed in condition A2(b) and A2(c) as potentially increasing flood levels or as otherwise agreed by the Secretary	N	N/A	N/A	N/A	Not yet complete	Compliant	CDS-JV	A Flood Mitigation Strategy (FMS) has been prepared that outlines the project approach to flood mitigation in accordance with this condition. The FMS was provided to the DPI (Water) and OEH, Sydney Water and the following councils on 3/05/2016 for consultation: - City of Sydney - Hurstville - Marrickville - City of Botany Bay - Rockdale - Canterbury The FMS will be supported by separate Flood Mitigation Plans that detail the design outcomes and specific mitigation measures to be applied to individual sites to meet this condition. These plans will be prepared for temporary works and for permanent works and will be submitted to DPE in a staged approach, and prior to the commencement of the relevant stage. The FMS was submitted to DPE on 25/05/16. DP&E requested (meeting on 28/06/16) that one additional week of consultation should be undertaken on the FMS with the relevant councils. Therefore the revised plan was provided to the following councils on 3/08/16 for additional consultation: - Georges River - Hurstville - Inner West - Marrickville - Rockdale - City of Sydney - City of Botany Bay - Canterbury Comments have been received and the plan is currently being revised to address this feedback. It is expected that the revised FMS will be submitted to DP&E for approval in mid-September 2016.
B23	(a)	the identification of flood risks to the SSI and adjoining areas, including further modelling and the consideration of local drainage catchment assessments, and climate change implications on rainfall and drainage characteristics. This must consider blockages of waterway structures from floating debris in its flood level modelling;																		
B23	(b)	a floor level survey to verify whether inundation would be above the floor levels of residential, commercial and/or industrial buildings;																		
B23	(c)	the identification of design and mitigation measures that would be implemented to protect proposed operations;																		
B23	(d)	not worsen existing flooding characteristics within and in the vicinity of the SSI boundary during construction and operation, including soil erosion and scouring;																		
B23	(e)	consideration of limiting flooding characteristics to the following levels:																		
B23	(i)	a maximum increase in inundation time of one hour in a 1 in 100 year ARI rainfall event;																		
B23	(ii)	a maximum increase of 10 mm in inundation at properties where floor levels are currently exceeded in a 1 in 100 year ARI rainfall event;																		
B23	(iii)	a maximum increase of 50 mm in inundation at properties where floor levels would not be exceeded in a 1 in 100 year ARI rainfall event; and																		
B23	(iv)	no inundation of floor levels which are currently not inundated in a 1 in 100 year ARI rainfall event, or else provide alternative flood mitigation solutions consistent with the intent of these limits;																		
B23	(f)	the processes and actions committed to in the mitigation measures referred to in conditions A2(b) and A2(c);																		



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B23	(g)	the identification of measures to be implemented to minimise scour and dissipate energy at locations where flood velocities are predicted to increase as a result of the SSI and cause localised soil erosion or scour;																		
B23	(h)	reconsideration of the proposed flood storage along Marsh Street with the intent of incorporating the flood storage requirements of the SSI into the proposed flood storage for the Cooks Cove development																		
B23	(i)	identification of drainage system upgrades including those upgrades considered as mitigation measures and identified during the processes outlined in condition B29; and																		
B23	(j)	identification of the timing and maintenance responsibility of any necessary works.																		
B23		The Flood Mitigation Strategy must be prepared by a suitably qualified and experienced person in consultation with directly affected landowners, Sydney Water, OEH, and relevant councils.																		
B23		The Flood Mitigation Strategy must be peer reviewed and confirmed as meeting the requirements of this condition by a suitably qualified and experienced independent hydrological engineer.																		
B23		The Flood Mitigation Strategy must be submitted to the Secretary and the relevant council(s) prior to the commencement of works which have been identified in the documents listed in condition A2(b) and A2(c) as potentially increasing flood levels, or as otherwise agreed by the Secretary																		
B24		All relevant information must be provided to the relevant council and/or NSW State Emergency Service, to assist in the preparation of any new or necessary update(s) to the relevant plans and documents in relation to flooding, to reflect changes in flooding levels, flows and characteristics as a result of the SSI.	N	N	N	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	The Flood Mitigation Strategy and relevant flood information will be provided to the NSW State Emergency Service and the following councils, once finalised: <ul style="list-style-type: none"> • City of Sydney, • Georges River Council, • Inner West Council, • City of Botany Bay Council, • Rockdale City Council, • Canterbury-Bankstown City Council.
B25		Unless otherwise agreed by the Secretary, a Flood Review Report(s) must be prepared within three months after the first defined flood event for any of the following flood magnitudes – the 5 year ARI event, 20 year ARI event, 100 year ARI event and probable maximum flood - to assess the actual flood impact against those predicted in Appendix P of the document referred to in condition A2(b). The Flood Review	Y	Y	Y	Y	Y	Y	Y	Y	Y	Subsequent to first defined flood	N	Pending	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	No flood event has occurred in the period to which this report applies. This condition will be reported on in the quarterly compliance report subsequent to the identified flood event.



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		Report(s) must be prepared by an appropriately qualified person(s) and include:																	
B25	(a)	identification of the properties and infrastructure affected by flooding during the reportable event;																	
B25	(b)	a comparison of the actual extent, level, velocity and duration of the flooding event against the impacts predicted in Appendix P of the document referred to in condition A2(b), or as otherwise altered by the Flood Mitigation Strategy; and																	
B25	(c)	where the actual extent and level of flooding exceeds the predicted level with the consequent effect of adversely impacting of property(ies), structures and infrastructure, identification of the measures to be implemented to reduce future impacts of flooding related to the SSI works including the timing and responsibilities for implementation.																	
B25		Flood mitigation measures must be developed in consultation with the affected property/structure/infrastructure owners, OEH and the relevant council.																	
B25		A copy of the Flood Mitigation Report(s) must be submitted to the Secretary and relevant council(s) within one month of finalising the report(s).																	
B26		The Proponent must take all feasible and reasonable measures to limit operational groundwater inflows into each tunnel to no greater than one litre per second across any given kilometre.	N	N	N	N	N	N	N	Y	Prior to finalisation of tunnel design Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Detailed design for the tunnel is progressing, with waterproofing design expected to be issued in August 2016. Tunnels are being designed and will be constructed in accordance with this Condition. Compliance with this condition will be reported on in the pre-operation compliance report.
B27		The Proponent must undertake further modelling of groundwater drawdown, tunnel inflows and saline water migration prior to finalising the design of the tunnel and undertaking any works that would impact on groundwater flows or levels. The modelling must be undertaken in consultation with DPI (Water) and include the results of at least 12 months of current baseline groundwater monitoring data. The results of the modelling must be documented in a Groundwater Modelling Report. The Groundwater Modelling Report must be finalised in accordance with the Australian Groundwater Modelling Guidelines	N	N	N	N	N	N	N	Y	Prior to finalisation of tunnel design	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	The Groundwater Modelling report has been prepared in accordance with this condition and in consultation with DPI (Water). The report is expected to be submitted to DP&E in August 2016 prior to the finalisation of tunnel design.

Pre-Construction Compliance Report



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		(National Water Commission, 2012) and prepared in consultation with DPI (Water). The Groundwater Modelling Report must include, but not be limited to:																		
B27	(a)	justification for layer choice;																		
B27	(b)	specification of matrix hydraulic and storage parameters for each layer																		
B27	(c)	statistical evaluation of the model's calibration;																		
B27	(d)	details of the groundwater monitoring data inputs (levels and quality);																		
B27	(e)	details of the proposed groundwater model update and validation as additional data is collected;																		
B27	(f)	assessment of impacts of groundwater drawdown, taking into consideration the NSW Aquifer Interference Policy (DPI, 2012), including potential impacts on licensed bores and groundwater dependent ecosystems;																		
B27	(g)	a comparison of the results with the modelling results detailed in the document referred to in condition A2(b); and																		
B27	(h)	documentation of any additional measures that would be implemented to manage and/or mitigate groundwater impacts not previously identified or identified but at a smaller scale.																		
B27		A copy of the Groundwater Modelling Report must be submitted to the Secretary prior to finalising the tunnel design. The Groundwater Modelling Report must include details of consultation with DPI (Water)																		
B28		A Water Quality Plan and Monitoring Program must be prepared and implemented to monitor and avoid or mitigate impacts on surface and groundwater quality and resources, during construction and operation. The Water Quality Plan and Monitoring Program must be developed in consultation with DPI (Water), Sydney Water and relevant councils, and must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Prior to construction	Y	8/06/2016	28/07/2016	Not yet approved	Not yet complete	Compliant	CDS-JV	A Water Quality Plan and Monitoring Program (WQP&MP; M5N-ES-PLN-PWD-0027) has been prepared for the construction phase of works and has been provided to the following stakeholders for consultation on 3/5/2016: <ul style="list-style-type: none"> • DPI (Water) • Inner West Council • City of Sydney Council • Hurstville Council • City of Botany Bay Council • Rockdale City Council • Canterbury City Council



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B28	(a)	identification of works and activities during construction and operation of the SSI, including tunnel discharge, runoff, emergencies and spill events, that have the potential to impact on groundwater quality, levels or potentiometric pressure (in confined aquifers), and surface water quality of potentially affected watercourses and riparian land;																<ul style="list-style-type: none"> Sydney Water (provided 14/06/16) <p>The WQP&MP was submitted to DP&E on 8/06/2016. The WQP&MP has been updated to address DP&E comments and has been resubmitted to DP&E for approval.</p>
B28	(b)	a risk management framework for evaluation of the risks to groundwater and surface water resources and dependent ecosystems as a result of groundwater inflows to the tunnels or discharges to surface water receiving environments, including definition of trigger values for contingency and ameliorative measures;																
B28	(c)	the identification of environmental management measures that would be implemented to manage impacts to surface waters and groundwater during construction and operation, including water treatment, erosion and sediment control and stormwater management measures consistent with Water Sensitive Urban Design measures, where relevant, and consistent with the measures detailed in the documents listed in conditions A2(b) and A2(c);																
B28	(d)	details of construction water treatment plants and the operational water treatment plants, including treatment processes, discharge water quality criteria (taking into consideration any water uses and proposed rehabilitation measures downstream of the discharge locations), discharge locations and rates (and justification for their location), treatment capacity, and any proposed on-site storage of flows;																
B28	(e)	commitment to designing discharge points into watercourses affected by the SSI to emulate a natural stream system, where feasible and reasonable, or where emulation cannot be achieved, adequate scour protection measures are to be implemented;																
B28	(f)	consideration of any naturalisation or rehabilitation programs occurring upstream or downstream of waterways or drainage lines intersected by the SSI, including the Wolli Creek Riparian Corridor Management Plan;																

Pre-Construction Compliance Report



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B28	(g)	the presentation of water quality objectives, standards, environmental values and parameters against which any changes to water quality will be assessed, based on the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (Agriculture and Resource Management Council of Australia and New Zealand and the Australian and New Zealand Environment and Conservation Council, 2000). Where alternate guidelines are used to establish water quality objectives (including the levels for protection of aquatic ecosystems in receiving waters), justification for this must be provided. In particular, justification must be provided for the classification of waterways as 'highly disturbed' versus 'slightly to moderately disturbed' receiving environments;																
B28	(h)	details on the current water quality, including at least 12 months of representative background monitoring data (including but not limited to representative data collected by the relevant councils, agencies and organisations where readily available) for surface and groundwater quality, levels and potentiometric pressures (in confined aquifers), to establish baseline water conditions prior to the commencement of construction;																
B28	(i)	monitoring of the quality of discharges from construction and operational water treatment plants;																
B28	(j)	identification of construction and operational phase surface water and groundwater monitoring locations including watercourses and waterbodies which are representative of the potential extent of impacts from the SSI, including the relevant analytes and frequency of monitoring;																
B28	(k)	groundwater monitoring must be able to demonstrate that groundwater discharge quality is consistent with supporting the water quality objectives defined in accordance with B28(g) and include, but not be limited to -																
B28	(iii)	sites in the vicinity of Bardwell Park (to confirm groundwater quality),																
B28	(iv)	inside and outside the cut-off wall at the Alexandria Landfill,																
B28	(v)	monitoring of groundwater levels at Stotts Reserve, southern bank of Wollli Creek behind the Wollli Creek station and forested areas along Bardwell Creek to ascertain potential impacts on groundwater dependent ecosystems, and																

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B28		monitoring of drawdown along the alignment of the tunnels;																
B28	(l)	details on the condition and status of licensed bores likely to be impacted by the SSI;																
B28	(m)	commitment to a minimum monitoring period of three years following the completion of construction or until the affected waterways and/or groundwater resources are certified by a suitably qualified and experienced independent expert as being rehabilitated to an acceptable condition, unless otherwise approved or directed by the Secretary. The monitoring must also confirm the establishment of operational water control measures (such as sedimentation basins and vegetation swales);																
B28	(n)	details of how the potential impact of discharges on receiving waters would be avoided or minimised, including design and operational measures incorporated into the SSI to protect water quality and, where feasible and reasonable, enhance water quality over time;																
B28	(o)	contingency and ameliorative measures in the event that adverse impacts to water quality or groundwater flows, levels or potentiometric pressures (in confined aquifers) are identified, with reference to the impact triggers defined in accordance with B28(b);																
B28	(p)	identification of and commitment to 'make good' provisions for groundwater users to be implemented in the event of a decline in water supply levels, quality and quantity from existing bores associated with groundwater changes from either construction and/or ongoing operational dewatering caused by the SSI;																
B28	(q)	procedures for monitoring of streambed fracturing;																
B28	(r)	procedures for monitoring and annual reporting of extracted groundwater volumes to DPI (Water) for a minimum monitoring period of three years following completion of construction, unless otherwise approved or directed by the Secretary; and																
B28	(s)	procedures for annual reporting of the monitoring results to the Secretary, DPI (Water), and the relevant councils.																

Pre-Construction Compliance Report



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B28		The Water Quality Plan and Monitoring Program must be submitted to the Secretary for approval prior to the commencement of construction of the SSI, unless otherwise agreed by the Secretary. A copy of the Water Quality Plan and Monitoring Program must be submitted to the DPI (Water), Sydney Water and relevant councils prior to its implementation.																		
B28		Nothing in this condition prevents the Proponent from preparing separate Water Quality and Monitoring Programs for the construction and operational stages of the SSI. Where a separate Water Quality and Monitoring Program is prepared for the operation of the SSI, this must be submitted to the Secretary for approval at least six months prior to the commencement of operation of the SSI.																		
B29		The Proponent must undertake further hydrological and hydraulic modelling based on the detailed design of the SSI to determine the ability of the receiving drainage systems to effectively convey pavement drainage from the SSI once operational. The modelling must be undertaken in consultation with the relevant council(s) and the outcomes documented in a Stormwater Drainage Report. The Stormwater Drainage Report must:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Prior to drainage works	N	Pending	N/A	N/A	Not yet complete	Compliant	CDS-JV	The Stormwater Drainage Reports are being developed in consultation with relevant stakeholders. The Stormwater Drainage Reports will be submitted to DP&E prior to the commencement of the relevant new or modified operational drainage works, ie Stages 2(a-e)(ii) and Stage 3.
B29	(a)	confirm the location, size and capacity of all drainage basin structures associated with the operation of the SSI;																		
B29	(b)	assess the potential impacts of pavement drainage discharges from the SSI drainage systems on the receiving environment including the hydrology (water quality and quantity) of receiving waterways, riparian vegetation, aquatic ecology and property;																		
B29	(c)	identify all feasible and reasonable mitigation measures to be implemented where pavement drainage from the SSI drainage systems is predicted to adversely impact on the receiving environment;																		
B29	(d)	where pavement drainage from the SSI flows to a council stormwater drainage system, confirm the location of the cross drainage point and, where available, use drainage information obtained from the relevant council, to –																		
B29	(d)	(i) confirm the capacity of the council's drainage system and its ability to receive and convey the flows,																		

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B29	(d)	(ii) identify any consequent upstream and downstream impacts on cross drainage infrastructure capacity,																		
B29	(d)	(iii) assess the impacts on the receiving environment at the final outflow point resulting from any additional flow volume (including, but not limited to, scour, flooding, water quality impacts, and impacts on riparian vegetation, aquatic ecology and property), and																		
B29	(d)	identify all feasible and reasonable mitigation measures to be implemented where increased flows through cross drainage systems adversely impact on council drainage infrastructure and the receiving environment; and																		
B29	(e)	set out a clear time frame for the implementation of mitigation measures.																		
B29		The Stormwater Drainage Report must be submitted to the Secretary prior to the commencement of any new operational drainage works, modifications to existing stormwater drainage works, or construction of hard surfaces associated with the operation of the SSI that would result in runoff to existing or new stormwater drainage systems, unless otherwise agreed by the Secretary.																		
B30		The Proponent must prepare a Water Reuse Strategy which sets out feasible and reasonable options for the reuse of collected stormwater and groundwater during construction and operation of the SSI. The Water Reuse Strategy must include, but not be limited to:	N	N	N	N	N	N	N	N	Y	Prior to tunnelling works	Y	Pending	N/A	Not yet approved	Not yet complete	Compliant	CDS-JV	The Water Reuse Strategy will be submitted in 2 stages, ie construction and operation. The Water Reuse Strategy for construction is under development and will be provided to DP&E prior to the commencement of tunnelling. This is expected to be in August 2016. The operational phase Water Reuse Strategy will be submitted to DP&E at least six months prior to the commencement of operation.
B30	(a)	evaluation of all feasible and reasonable reuse options;																		
B30	(b)	details on the preferred reuse option(s), including volumes of water to be reuse, proposed reuse locations and/or activities, proposed treatment (if required), and any additional licences or approvals that may be required; and																		
B30	(c)	a time frame for the implementation of the preferred reuse option(s).																		
B30		Justification must be provided in the event that it is concluded that no feasible or reasonable reuse options prevail.																		
B30		A copy of the Water Reuse Strategy must be submitted to the Secretary for approval prior to commencement of tunnelling works.																		

Pre-Construction Compliance Report



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B30		Nothing in this condition prevents the Proponent from preparing separate Water Reuse Strategies for the construction and operational phases of the SSI. Where a separate Strategy is prepared for the operation of the SSI, this must be submitted to the Secretary for approval at least six months prior to the commencement of operation of the SSI.																	
B31		Prior to the commencement of any activities that would result in the disturbance of land and/or soil, or as otherwise agreed by the Secretary, in areas identified as having a moderate to high risk of contamination, a Soil Contamination Report must be prepared by a suitably qualified person(s) in accordance with the requirements of the Contaminated Land Management Act 1997 and associated guidelines, detailing the outcomes of Phase 2 contamination investigations within these areas. The Soil Contamination Report must detail, where relevant, whether the land is suitable (for the intended land use) or can be made suitable through remediation and/or outline the potential contamination risks from the SSI to human health and receiving waterways.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Soil Contamination Reports are being progressively completed by Golder & Associates Pty Ltd in accordance with the Contaminated Land Management Act 1997 and associated guidelines to meet the requirements of condition B31. Compound and other construction sites identified as having a medium to high risk of contamination (Appendix B of the Construction Contaminated Land Management Plan) include: - Kingsgrove (C1 and C2-civil site) - medium-high risk - Commercial road (C3) - medium risk - Bexley Road North (C4) - medium risk - Arncliffe (C7) - medium risk - Canal Road (C8) - medium-high risk - Landfill Closure (C10) - medium risk - Burrows Road (C11) - medium-high risk - Campbell Road bridge (C12) - high risk - Gardeners Road bridge (C13) - high risk - Sydney Park (C14) - high risk - St Peters Interchange construction area - high risk - Local Road upgrade works areas - high risk
B31		For land to be disturbed by the SSI, where the investigations identify that the site is suitable for the intended operations and that there is no need for a specific remediation strategy, measures to identify, handle and manage potential contaminated soils, materials and groundwater must be identified in the Soil Contamination Report and incorporated into the Construction Environmental Management Plan, unless otherwise agreed by the Secretary. Should a remediation strategy be required, the Soil Contamination Report must include a Remediation Action Plan for addressing the disturbed area, and how the environmental and human health risks will be managed during the disturbance, remediation and/or removal of contaminated soil or groundwater.	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Soil Contamination Reports have been prepared for the following sites: - Kogarah Golf Course - Construction compounds (C1-C2, C4, C8 and C11) - St Peters Interchange, various sites - Local Road upgrades, various sites Soil Contamination Reports are continuing to be completed and will be prepared prior to any activities that would disturb potentially contaminated areas. Approximate timeframes as below: - Western Surface Works (C2-tunnel site and C3 compounds): Sept-Oct 2016 - Arncliffe (Eve Street construction site): Nov 2016 - SPI (various sites): Sept-Oct 2016 - Local Road Upgrades (various sites): Sept 2016 - early 2017 Where remediation is required Remediation Action Plans (RAP) will also be prepared prior to commencement of works that would disturb the land/soil to be remediated. RAPs are being reviewed to produce site audit statements by [REDACTED], an accredited site auditor. No ground is being disturbed until Soil Contamination Reports are complete and where required RAPs are complete.

Pre-Construction Compliance Report



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B31		If remediation is required, the Soil Contamination Report must be accompanied by a Site Audit Statement(s), prepared by an accredited Site Auditor under the Contaminated Land Management Act 1997, verifying that the disturbed area has been or can be remediated to a standard consistent with the intended land use. Where land is remediated, a final Site Audit Statement(s) must be prepared by an accredited Site Auditor, certifying that the contaminated disturbed areas have been remediated to a standard consistent with the intended land use. The final Site Audit Statement must be submitted to the Secretary and relevant councils prior to operation of the SSI, unless otherwise agreed to by the Secretary.	?	Y	?	?	?	?	Y	?	?	Pre-operation	N	Pending	N/A	N/A	Ongoing	Compliant	CDS-JV	
B32		The Proponent must submit a copy of the final Landfill Closure Management Plan to the Secretary prior to the commencement of any closure or construction works at Lot 2 DP 1168612, 10-16 Albert Street, St Peters (the Alexandria Landfill). The Plan must be accompanied by a statement which sets out where the following have been addressed in the Landfill Closure Management Plan:	N	Y	N	N	N	Y	N	Y	Pre-Construction	N	2/06/2016	N/A	N/A	2/06/2016	Compliant	CDS-JV	A Landfill Closure Management Plan has been prepared by Golder Associates Pty Ltd. The plan was reviewed and endorsed by the EPA on 27 May 2016. The Plan and required statement was submitted to DPE on 2 June 2016. DP&E have provided comments on the Landfill Closure Management Plan (7/09/2016). These comments are currently being reviewed by CDS-JV.	
B32	(a)	the environmental and monitoring framework to be implemented following the cessation of waste disposal and material recycling activities at the Alexandria Landfill and associated waste recycling and transfer facility;																		
B32	(b)	existing operational consents and approvals for use of the site as a waste storage and recycling facility;																		
B32	(c)	the proposed future use of the site;																		
B32	(d)	the closure and stabilisation of the site including details of final capping designs and future landform;																		
B32	(e)	a groundwater monitoring bore network, to monitor the movement of groundwater within and immediately outside the cut-off wall;																		
B32	(f)	material tracking;																		
B32	(g)	occupational health and safety requirements;																		
B32	(h)	community engagement processes;																		
B32	(i)	specific measures for the management, monitoring and reporting of;																		
B32	(j)	any outstanding clean-up notices, and																		



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B32	(k)	evidence that the EPA has reviewed the Landfill Closure Management Plan and has no outstanding concerns. Where any of the above details have not been included in the final Landfill Closure Management Plan, then the Proponent must provide the details in the statement accompanying the plan required by this condition.																		
B32																				
B33		The Proponent must not destroy, modify or otherwise physically affect any heritage items, including human remains, outside of the SSI footprint. This approval does not allow the Proponent to harm, modify, or otherwise impact human remains uncovered during the construction and operation of the SSI.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	Measures to prevent damage to heritage items have been incorporated into Section 6 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). These include: <ul style="list-style-type: none"> • heritage items to be shown on Site Environment Plans (SEPs), • delineation of heritage items/areas on site, • avoiding or monitoring use of vibratory equipment in proximity to heritage items.
B34		The Proponent must salvage sections of the laminated timber from the Rudders Bond Store prior to demolition of the building and assess options for its reuse within the project area at St Peters and maximise its use within the operational facilities. The sections to be salvaged must be determined in consultation with the Heritage Council of NSW (or its delegate). The Proponent must submit to the Secretary written advice from the Heritage Council of NSW that it is satisfied with the proposed level of salvage, prior to the building being demolished.	N	N	N	N	N	N	Y	N	N	Construction	Y	Pending	N/A	N/A	Not yet complete	Compliant	CDS-JV	This requirement is addressed in Section 6.2 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). The OEH (as delegate of the Heritage Council of NSW) is being consulted in regards to salvage requirements. OEH have been provided information for review (2/08/2016) in relation to this condition and their response is expected to be provided within 3 weeks. Evidence of the satisfaction of the Heritage Council will be provided to DPE prior to demolition. CDS-JV will assess options for reuse of the salvaged sections within the project area at St Peters during development of the Urban Design and Landscape Plan.
B35		The Proponent must salvage items and materials from heritage items as advised by an independent heritage consultant. The list of items and materials to be salvaged must be developed in consultation with the relevant council(s) and submitted to the Secretary for consideration prior to demolition of any heritage items. How the items are reused in the project is to be detailed in the Urban Design and Landscape Plan required by condition B61. Any residual items and materials are to be made available, through a process to be developed by the Proponent in consultation with the relevant council(s), to property owners within the locality from where the material originated.	N	N	N	N	N	N	Y	Y	N	Pre-construction Construction	Y	Pending	N/A	Not yet approved	Not yet complete	Compliant	CDS-JV	The requirement to salvage heritage items/materials is addressed in Section 6.2 and Appendix B of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). Reuse of items will be described in the Urban Design and Landscape Plan. Salvage is to be undertaken where heritage items/materials are to be demolished as part of the project. Heritage items/materials to be demolished are located in the St Peters Interchange and Local Roads areas and therefore this condition only applies to Stages 2(d) and 2(e). Inspections for salvageable items are commencing 4/08/2016. Council representatives have been invited to attend inspections for consultation purposes. Relevant councils are being consulted regarding both items to be salvaged and the process to enable reuse of residual items by property owners in the respective areas. The first salvage report for heritage items where access has been available (7 out of a total of 10 properties) has been prepared and is expected to be submitted to DP&E in September 2016. The remaining properties will be inspected once access is obtained and a subsequent salvage report is expected to be submitted in November 2016.



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B36		Except for necessary stabilisation or maintenance works agreed in consultation with the Secretary, the Proponent must not destroy, modify or otherwise physically affect the Service Garage located at 316 Princes Highway, St Peters	N	Y	Y	N	N	N	Y	Y	N	Pre-construction Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	The property will be protected from indirect damage through the measures outlined in Section 6 and Appendix B of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006), including no-go zone fencing and vibration monitoring where required.
B37		Identified impacts to heritage items and heritage conservation areas must be minimised through both detailed design and construction. The measures for ensuring this are to be detailed in the Construction Heritage Management Plan required by condition D68(c).	N	N	N	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	This requirement has been addressed through detailed design and is also addressed in Section 6.2 and Appendix B of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). All impacts on heritage items and conservation areas have been avoided where possible in both the construction and operational footprint and design.
B38		Prior to conducting acoustic treatment at any heritage items in accordance with this approval, the Proponent must obtain and implement the advice of an appropriately qualified and experienced heritage expert to ensure such work is carried out in a manner sympathetic to the heritage values of the item.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement is addressed in Section 6 and Appendix B of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). Acoustic treatments of heritage items would be sympathetic to their heritage values, and would be guided by the project's heritage specialists, Extent Heritage.
B39		Any buildings or structures identified as potential heritage items in the documents listed in conditions A2(b) and A2(c) or identified during detailed design or construction of the SSI, must be dealt with as though they are a locally listed heritage item.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	Potential heritage items were considered in the New M5 EIS and will also be considered during any further heritage inspections conducted during the detailed design phase. Section 6.1.4 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006) provides that all identified potential heritage items will be dealt with as locally listed items. No additional items have been identified in the reporting period.
B40	(a)	The Proponent must prepare a Heritage Interpretation Plan which identifies and interprets the key heritage values and stories of heritage items and heritage conservation areas impacted by the SSI. The Heritage Interpretation Plan must include, but not be limited to: a discussion of the key interpretive themes, stories and messages proposed to interpret the history and significance of the affected heritage items and sections of heritage conservation areas including, but not limited to, St Peters Brickpit Geological site, the Alexandra Canal, Terraces at 28-44 and 82 Campbell Street and the Rudders Bond Store; and	N	N	N	N	N	N	Y	Y	N	Construction	N	Pending	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	This requirement is addressed in Section 6 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). The Heritage Interpretation Plan is being developed and will be submitted to the relevant councils and agencies as required. The Heritage Interpretation Plan will include as a minimum: - St Peters Brickpit Geological Site - Alexandra Canal - Terraces at 28-44 and 82 Campbell Street - Rudders Bond Store - Dynamo Service Garage - Clemton Park Urban Conservation Area - Pallamanna Parade Urban Conservation Area
B40	(b)	identification and confirmation of interpretive initiatives implemented to mitigate impacts to archaeological relics, heritage items and conservation areas affected by the SSI.																		
B40		The Heritage Interpretation Plan must be prepared in consultation with the NSW Heritage Council and the relevant local councils. A copy of the Plan must be provided to the NSW Heritage Council, the relevant local councils and																		



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		the Secretary at least six months prior to the operation of the SSI.																		
B41		The Proponent must compile photographic records of those parts of the Alexandra Canal to be impacted by the construction of stormwater drainage works both prior to and post the works being undertaken. The photographs taken prior to the works must be included in the Construction Heritage Management Plan required under condition D68(c) and referred to when reinstating the bricks of the canal embankment to ensure that they are correctly replaced. The pre- and post-works photographs must be made available to the Heritage Council of NSW and the Secretary on request.	N	N	N	N	N	N	N	Y	N	Pre-construction Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	This requirement is addressed in Section 6.2 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). Photographic records will be obtained prior to any impact from drainage works on Alexandra Canal. These records will be included in an update to the Construction Heritage Sub-Plan once obtained. Subsequent records will also be obtained as required to ensure appropriate reinstatement.
B42		The Proponent shall appoint an appropriately qualified and experienced heritage expert to oversee the removal and reinstatement of sections of the embankment wall of the Alexandra Canal affected by the construction of stormwater drainage points.	N	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	This requirement is addressed in Section 6.2 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). The project's heritage specialists, Extent Heritage have been engaged to provide advice and oversight of works affecting Alexandra Canal.
B43	(a)	The SSI is to be designed with the objective of improving, on balance, and not adversely impacting on: the performance of the road network for all road users, including but not limited to vehicles, freight, public transport and active transport; and existing access arrangements and services for all road users, including consideration of speed and reliability of public transport services.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	Current design is being undertaken in consideration of all Conditions of Approval, including the requirement to improve existing traffic performance and access arrangements.
B43	(b)																			
B44		The SSI must be designed to not preclude delivery of the King Street Gateway Project. Consultation with the relevant council(s) must be undertaken during detailed design of the SSI to facilitate integration of the two projects. Current traffic modelling and assessment, and the result of the Road Network Performance Review Plan as required in condition E40 where applicable, must be provided to the relevant authority and used in the development of the King Street Gateway Project.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Consultation with Councils is ongoing in relation to the detailed design. The Road Network Performance Review Plan M5N-CDS-MNP-100-100-MG-1865 will incorporate and report on the requirements of this condition including consultation with relevant councils.
B45		Where bus stops are required to be temporarily closed during construction, such closure must not occur until:	N	N	N	Y	Y	Y	Y	Y	N	Design	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	No bus stops have been relocated during the reporting period. This condition will be implemented when and where bus stops are required to be temporarily closed during construction. The Project

Pre-Construction Compliance Report



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B45	(a)	for bus stops identified for relocation in the documents referred to in condition A2(b), relocated bus stops are functioning, have similar capacity and are relocated within a 400 metre walking distance of the existing bus stop (where feasible and reasonable); or																		
B45	(b)	for bus stops identified for temporary removal in the documents referred to in condition A2(b), bus stops are identified that are within a 400 metre walking distance of the removed bus stop (where feasible and reasonable), have comparable capacity, and are on the same route and in the same direction of the closed bus stop.																		
B45		Where temporary closures of bus stops are required (including relocation or removal), adequate wayfinding signage shall be provided directing commuters to adjacent or relocated bus stops. Any closures or alterations to bus stops during construction are to be undertaken in consultation with Transport for NSW.																		
B46		All bus stops temporarily removed or relocated during construction of the SSI must be reinstated in a manner that provides equal or improved capacity and accessibility in consultation with Transport for NSW and relevant councils prior to the commencement of operation of the SSI	N	N	N	Y	Y	Y	Y	Y	N	Prior to operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	Reinstatement of bus stops will be undertaken in consultation with Transport for NSW and the relevant council in accordance with this condition. This requirement is addressed in Section 6 of the Construction Traffic and Access Management Plan (M5N-ES-PLN-PWD-0006).
B47		To improve pedestrian and cycle accessibility, road lane widths, associated medians and intersection geometry are to be minimised, where feasible and reasonable, without compromising safety	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	Road Geometry Design Reports and the Road Design Criteria Report takes this condition into consideration when optimising road alignments. Area Shared Paths (Footpaths, Bicycle Paths) Design Reports further identify accessibility.
B48		In relation to new or modified local road, parking, pedestrian and cycle infrastructure, the SSI (including ancillary facilities) must be designed to meet relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Engineering Practice	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	RMS are reviewing the detailed design packages for the project. Design reports for each package or road geometry design address engineering and safety guidelines, including Austroads Guide to Traffic Engineering Practice, with consideration of impacts to the existing and future demand, road and pedestrian safety and traffic.



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B49		An independent Road Safety Audit(s) is to be undertaken by an appropriately qualified and experienced person during detailed design to assess the safety performance of any new or modified local road, parking, pedestrian and cycle infrastructure provided as part of the SSI (including ancillary facilities) to ensure that they meet the requirements of relevant design, engineering and safety guidelines, including Austroads Guide to Traffic Engineering Practice. Audit findings and recommendations must be actioned prior to construction of the relevant infrastructure and must be made available to the Secretary on request.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	An experienced and appropriately qualified engineer from Aurecon Jacobs Joint Venture is conducting the Road Safety Audits. RMS is invited to participate in each Road Safety Audit. The expected date for completion of all Road Safety Audits is September 2016.	
B50		The Proponent must undertake a Pedestrian and Cycleway Network Review . The Review must be prepared and approved by the Secretary within six months from the date of this approval (or as otherwise agreed by the Secretary) to identify pedestrian and cycle facilities that are to be provided by the Proponent as part of the SSI. The Review must be prepared by a suitably qualified and experienced person(s) that has been approved by the Secretary. The Review must be undertaken in consultation with the relevant councils and Bicycle NSW and address the matters raised during consultation. The Review must identify (and consider), but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Design	Y	N/A	N/A	Not yet approved	Ongoing	Compliant	CDS-JV	CDS-JV has commenced drafting a Pedestrian and Cycleway Network Review. The Review will include consultation with the relevant local councils and Bicycle NSW. The Pedestrian and Cycleway Network Review will be submitted to the Secretary by October 2016.	
B50	(a)	current and future land use and associated pedestrian and cycle demand and needs;																			
B50	(b)	pedestrian and cycle impacts associated with the project;																			
B50	(c)	the King Street Gateway Project, including potential Princes Highway traffic calming initiatives;																			
B50	(d)	Alexander Canal initiatives;																			
B50	(e)	regional and local pedestrian and cycling strategies;																			
B50	(f)	pedestrian and cycle safety, accessibility and connectivity, including the public realm;																			
B50	(g)	Intersection and signal phasing opportunities to reduce waiting and crossing times for pedestrians and cyclists;																			
B50	(h)	provision of upgraded cycle and pedestrian facilities within 1,000 metres of the boundary of the St Peters Interchange, apart from the areas addressed in conditions B62(c) and B64; and																			
B50	(i)	concept designs for pedestrian and cycleway infrastructure and implementation timeframes																			

Pre-Construction Compliance Report



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B50		The Review is also to consider the delivery of the 'M5 East Green Link' between Kingsgrove and Mascot approved as part of the M5 East Motorway project. The review shall address past constraints to the delivery of this project and options to overcome these constraints.																		
B50		The Review must not result in a reduced level of cycle and pedestrian infrastructure as identified in the documents referred to in condition A2, unless required by these conditions.																		
B51		A detailed Pedestrian and Cycle Implementation Strategy must be submitted to the Secretary within 12 months of the date of this approval (or as otherwise agreed by the Secretary) and implemented at the commencement of project operations, except as permitted by this approval. The strategy must be prepared in consultation with relevant councils and Bicycle NSW. The Strategy must be consistent with the approved Pedestrian and Cycleway Network Review and include:	N	N	N	Y	Y	Y	Y	Y	Y	Design Operation	Y	N/A	N/A	Not yet approved	Not yet complete	Compliant	CDS-JV	CDS-JV shall commission a Pedestrian and Cycle Implementation Strategy to be developed in consultation with the relevant councils and Bicycle NSW. The strategy shall be provided to the Secretary prior to April 2017.
B51	(a)	pedestrian and cycle engineering and safety standards;																		
B51	(b)	a safety audit of existing and proposed pedestrian and cycle facilities to address the above standards (including the shared path audit undertaken for the King Georges Road Interchange Project SSI-6547);																		
B51	(c)	details of selected routes and connections to existing local and regional routes;																		
B51	(d)	timing and staging of all works;																		
B51	(e)	infrastructure details including lighting, safety, security and standards compliance;																		
B51	(f)	signage and wayfinding measures; and																		
B51	(g)	details of associated landscaping works																		
B51		The Strategy shall be endorsed by a suitably qualified and experienced person(s) approved by the Secretary. The endorsement shall address each of the listed matters in this condition. All identified works arising from this condition are to be implemented by the Proponent.																		
B52		Waste generated outside the site must not be received at the site for storage, treatment, processing, reprocessing, or disposal on the site, except as expressly permitted by a licence or waste exemption under the Protection of the Environment Operations Act 1997, if such a licence is required in relation to that waste.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	This requirement is addressed in Section 6 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008). No waste has been received at project sites during the reporting period. Compliance monitoring of this condition will be ongoing during Construction.



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B53		The reuse and/or recycling of waste materials generated on site must be maximised as far as practicable, to minimise the need for treatment or disposal of those materials off site.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement is addressed in Sections 1.2 and 6 of the Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008).
B54		All liquid and/or non-liquid waste generated on the site must be assessed and classified in accordance with Waste Classification Guidelines (DECCW, 2009) or any superseding documents.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement is addressed in Section 6 of Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008) and the Manage Waste Procedure (M5N-ES-PRC-PWD-0044).
B55		All waste materials removed from the SSI site must only be directed to a waste management facility or premises lawfully permitted to accept the materials.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement is addressed in Section 6 of Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008) and the Manage Waste Procedure (M5N-ES-PRC-PWD-0044).
B56		The handling of spoil generated during construction of the SSI is to be conducted in accordance with the Spoil Management Plan required under condition D51.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement is addressed in the Spoil Management Plan (M5N-PM-PLN-PWD-0002). Compliance monitoring of this condition will be ongoing during Construction.
B57		Utilities, services and other infrastructure potentially affected by construction and operation must be identified prior to construction to determine requirements for access to, diversion, protection, and/or support. Consultation with the relevant owner and/or provider of services that are likely to be affected by the SSI must be undertaken to make suitable arrangements for access to, diversion, protection, and/or support of the affected infrastructure as required.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	A number of services have been identified for relocation to date. Pre-construction utility location works have been carried out in consultation with all relevant utility providers. These include Optus, Jemena, Telstra, Ausgrid, and Sydney Water. All relocation and protection works shall continue to be carried out in consultation and via approvals from relevant stakeholders.
B58		The Proponent must undertake dilapidation surveys and prepare dilapidation reports on the current condition of buildings, services and utilities identified as at risk from settlement or vibration. The dilapidation surveys and reports must be prepared by a suitably qualified and experienced person(s) and must be provided to the owners of the buildings, services and utilities for review prior to the commencement of potentially impacting construction activities. Subsequent dilapidation surveys must be undertaken to assess damage to the building, services and utilities that may have resulted from the construction of the SSI within three months of the completion of construction in an affected area, unless otherwise approved by the Secretary. The Proponent must carry out rectification at its expense and to the reasonable requirements of the property, services and utility owner(s) within three months of completion of the post-dilapidation surveys unless otherwise	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Dilapidation surveys have commenced for the Project and will continue to be carried out in accordance with this condition. Properties and assets requiring dilapidation surveys have been prioritised to match the construction program. The Project is on schedule to provide reports to all property and asset owners prior to works that may cause settlement or vibration.

Pre-Construction Compliance Report



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		agreed by the owner of the affected building, service or utility.																		
B59		<p>Upon determining the access route(s) for heavy and oversized vehicles associated with the construction of the SSI and site establishment works, a suitably qualified and experienced independent expert must prepare a Local Road Dilapidation Report for those local roads within the control of the relevant councils that would be utilised. The Local Road Dilapidation Report must assess the current condition of the road and describe mechanisms to restore any damage that may result due to its use by traffic and transport related to the construction of the SSI, including site establishment works. The Local Road Dilapidation Report must be submitted to the relevant council(s) for review at least two weeks prior to the use of the local roads by heavy and/or over-sized vehicles associated with the construction of the SSI and site establishment works.</p> <p>A subsequent Local Road Dilapidation Report must be prepared within four weeks of the completion of construction to assess any damage to the road that may have occurred as a result of the use of the roads by heavy and/or over-sized vehicles associated with the construction of the SSI and site establishment works.</p> <p>Measures undertaken to restore or reinstate roads affected by the SSI must be undertaken in accordance with the reasonable requirements of the relevant council(s), including agreed</p>	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	13/05/2016	N/A	N/A	13/05/2016	Compliant	CDS-JV	Local Road dilapidation surveys have been completed for each council area. The Local Road Dilapidation Reports for each council were provided to the Local Councils on 13 May 2016.

Pre-Construction Compliance Report



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B59		<p>timing, and at the full expense of the Proponent.</p> <p><i>Note:</i> Nothing in these conditions restricts the Proponent commencing adjustments and minor upgrades to the existing road network to cater for construction traffic and installation of temporary project signage prior to the commencement of construction.</p>																	
B60		<p>Within three months of the date of this approval, unless otherwise agreed by the Secretary, the Proponent must establish an Urban Design Review Panel (UDRP) to provide advice and guidance during detailed design and the preparation of the Urban Design and Landscape Plan</p> <p>The UDRP is to provide advice in relation to architecture, heritage values, urban and landscape design and artistic aspects of the SSI and must:</p> <p>(a) be comprised of-</p> <p>(i) representatives from the Proponent, including the Head of Urban Design,</p> <p>(ii) where the works affect places of heritage significance, an independent heritage architect,</p> <p>(iii) two independent architects one of which is a landscape architect,</p> <p>(iv) representatives from the relevant council(s),</p> <p>(v) a maximum of two experts, relevant to the works being considered, as selected by the Proponent, where relevant, and</p> <p>the NSW Government Architect as Chair;</p>	N	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	WCX M5 AT	WCX M5 AT has established an UDRP, consisting of representatives from RMS, WCX M5 AT and CDS-JV as well as two independent architects. The Panel has met twice (once in 2015 and once in February 2016) and is due to meet again on 19 August 2016.

Pre-Construction Compliance Report



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B60	(b)	meet at least four times a year, or as otherwise agreed by the UDRP;																		
B60	(c)	review and provide advice on the detailed design of the SSI and final review of the Urban Design and Landscape Plan (required by condition B61); and																		
B60	(d)	keep a record of meeting minutes and a schedule of action items arising from the meeting,																		
B60		The Proponent may establish a separate UDRP for each precinct																		
B61		Prior to commencement of permanent built surface works and/or landscaping, or as otherwise agreed by the Secretary, an Urban Design and Landscape Plan (UDLP) must be prepared. The UDLP must be prepared by a suitably qualified and experienced person(s), in consultation with the relevant council(s) and community, Heritage Council of NSW (or delegate), and the UDRP (condition B60). The UDLP must be approved by the Secretary. The UDLP must present an integrated urban and landscape design for the SSI, and must include, but not be limited to:	N	N	N	N	Y	Y	Y	Y	Y	Prior to permanent works	Y	N/A	N/A	Not yet approved	Not yet complete	Compliant	CDS-JV	Hassel has been engaged to develop the Project's Urban Design and Landscape Plan (UDLP). In accordance with this condition, the UDLP will be submitted for the approval of the Secretary prior to the commencement of the relevant stage for permanent built works and/or landscaping (ie Stages 2(a-e)(ii)) or as otherwise agreed. No permanent surface works will be undertaken during the establishment stages.
B61	(a)	identification of design objectives, principles and standards based on –																		
B61	(a)	(i) local environmental and heritage values																		
B61	(a)	(ii) urban design context																		
B61	(a)	(iii) sustainable design and maintenance																		
B61	(a)	(iv) community safety, amenity and privacy, including 'safer by design' principles where relevant																		
B61	(a)	(v) relevant design standards and guidelines,																		
B61	(a)	(vi) prioritising the visual amenity and values of adjoining receivers over the road user experience																		
B61	(a)	(vii) minimising the footprint of the project (including at operational facilities), and																		
B61	(a)	the urban design principles outlined in the documents referred to in conditions A2																		
B61	(b)	landscaping and building design opportunities to mitigate the visual impacts of the operational fixed facilities (including the ventilation facilities, emergency smoke extraction outlets and the Motorway Operations Complex) in accordance with the following design considerations																		

Pre-Construction Compliance Report



Ref	Sub Ref	Condition of Approval	RELEVANT STAGE							Timing/phase	Secretary's Approval Required?	Date of first submission	Date of amended submission	Date of Approval	Date completed	Compliance Status	Responsibility	Comment / evidence
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11									
B61	(c)	details on the location of existing vegetation and proposed landscaping (including use of endemic and advanced tree species where practicable). Details of species to be replanted/revegetated must be provided, including their appropriateness to the area and habitat for threatened species. Where feasible and reasonable, vegetation to be removed must be reused;																
B61	(d)	a description of disturbed areas (including compounds) and details of the strategies to progressively rehabilitate, regenerate and/ or revegetate these areas;																
B61	(e)	a description of the SSI design features, including the graphics such as sections, perspective views and sketches for key elements of the SSI;																
B61	(f)	information on the reuse of heritage items and materials (condition B34 and B35)																
B61	(g)	detail safe public access to the exposed sections of the former St Peters Brickpit Geological Site unless demonstrated to be impracticable for safety reasons;																
B61	(h)	an assessment of the location, design and impacts of operational lighting associated with the SSI and measures proposed to minimise lighting impacts;																
B61	(i)	details of where and how recommendations from the UDRP have been incorporated into the plan																
B61	(j)	the Pedestrian and Cycle Implementation Strategy (condition B51);																
B61	(k)	the sub-plans identified in conditions B62(a)-(f);																
B61	(l)	the timing for implementation of access, landscaping and open space initiatives;																
B61	(m)	monitoring and maintenance procedures for the built elements, rehabilitated vegetation and landscaping (including weed control) including performance indicators, responsibilities, timing and duration and contingencies where rehabilitation of vegetation and landscaping measures fail; and																
B61	(n)	evidence of consultation with the relevant councils and the community on the proposed urban design and landscape measures, prior to finalisation of the Plan																
B61		The UDLP must be implemented within one year of operation unless otherwise required by these conditions																
B61		Note:																

Pre-Construction Compliance Report



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B61		<ul style="list-style-type: none"> The UDLP may be submitted in stages to suit a staged construction program of the SSI or in stages to address the built elements of the SSI and landscaping aspects of the SSI. 																		
B62		The Urban Design and Landscape Plan must include the following Sub-plans:																		
B62	(a)	a Campbell Road Crossing Sub-plan to assist in the management of access, land use, community amenity and open space impacts associated with the SSI. The Plan must be prepared and approved by the Secretary within twelve months of the date of this approval, unless otherwise agreed by the Secretary. The Plan must be prepared in consultation with the relevant councils and the UDRP, and must address the matters raised during consultation.	N	N	N	N	N	N	Y	N	Within twelve months of the date of this approval	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV	The Campbell Road Crossing Sub-plan will be developed and submitted for approval of the Secretary by March 2017.	
B62	(a)	The Plan must identify and facilitate the construction and establishment of a new land bridge over Campbell Road that is connected to, and contiguous with, the southern end of the existing Sydney Park and the proposed open space area (including active recreation facilities) to the north of the St Peters Interchange. The land bridge is to be designed to satisfy the following objectives -																		
B62	(a)	(i) to enrich and enhance the functionality, integration, recreational value and quality of Sydney Park																		
B62	(a)	(ii) to provide a high quality park that is landscaped and provides a continuous flow of open space over Campbell Road																		
B62	(a)	(iii) to create a new public open space, passive recreation area and garden for the community																		
B62	(a)	(iv) to address the severance created by an expanded Campbell Road and to enhance connectivity between existing and proposed open space that enhances the efficiency and resilience of the southern portion of Sydney Park and the new active recreation areas, and																		
B62	(a)	to improve and contribute to the quality and safety of the pedestrian and cyclist environment, including consistency with the Pedestrian and Cycleway Network Review required by condition B50																		
B62	(a)	The following parameters are to be incorporated and complied with in the design and delivery of the land bridge:																		
B62	(a)	(i) be designed to minimise the amenity impacts on adjacent residential development (including																		

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14									
B62	(a)	visual and acoustic privacy and overshadowing impacts),																	
B62	(a)	(ii) be located at least 35 metres to the west of No. 2 Campbell Road,																	
B62	(a)	(iii) be of a width that addresses the objectives of this Plan but be no less than 20 metres (at any point), as measured parallel to Campbell Road,																	
B62	(a)	(iv) provide high quality access, including the integration of cycling and pedestrian																	
B62	(a)	(v) facilities offering continuous paths of travel, over Campbell Road, including consistency with the Pedestrian and Cycleway Network Review (condition 850																	
B62	(a)	(vi) considers the provision of pedestrian or cycle access along Campbell Road																	
B62	(a)	(vii) be of a depth to facilitate the planting across the width and depth of the bridge of a diverse range of vegetation (including species design and maturity) consistent with existing and proposed Sydney Park plantings, and																	
B62	(a)	(viii) the provision of high quality design and durable park infrastructure, furniture and lighting that meets the relevant council's requirements																	
B62	(a)	The Plan must be consistent with and integrate with the requirements of the UDLP (condition B61) and the St Peters Interchange Recreational Area Sub-plan (condition B62 (b))																	
B62	(a)	This Plan must be fully implemented within four years of the commencement of operations, or as otherwise agreed by the Secretary.																	
B62	(b)	a St Peters Interchange Recreational Area Sub-plan to maximise the amount of open space available for the provision of active recreation areas and multifunctional and adaptable active recreation support facilities on the St Peters interchange site (located to the south of Campbell Road). The Plan must be prepared and approved by the Secretary within 12 months of the date of this approval, unless otherwise agreed by the Secretary.	N	N	N	N	N	N	Y	N	Y	Within twelve months of the date of this approval	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV
B62	(b)	The Plan must be prepared by an experienced and qualified person(s) in the design and provision of active recreation facilities and in consultation with the relevant councils (including adjoining councils) and the community. The Plan must detail the construction, timing and responsibility for the delivery of active recreation facilities																	The St Peters Interchange Recreational Area Sub-plan will be developed and submitted for approval of the Secretary by March 2017.

Pre-Construction Compliance Report



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		(including, but not limited to, sporting fields) and take into account the following considerations:																		
B62	(b)	(i) maximising the availability of active recreational open space																		
B62	(b)	(ii) All relevant policies, guidelines and plans																		
B62	(b)	(iii) The type of facilities to be provided taking into account the current and future local community recreation preferences and needs																		
B62	(b)	(iv) The future use and rationalisation of Albert Street to improve the provision and servicing of open space, including consideration of alternate property access and shared zone treatments																		
B62	(b)	(v) Provision of safe and efficient pedestrian and cyclist access connectivity, including integration with the Pedestrian and Cycleway Network Review (condition 850), and Integration with Sydney Park Plan of Management																		
B62	(b)	The Plan must be consistent with and integrate with the requirements of the UDLP and the Sydney Park Enhancement Sub-plan.																		
B62	(b)	Within four years of the commencement of operations, unless otherwise agreed by the Secretary, the Proponent must implement the sub-plan including providing a flat grassed area to be able to be converted into sporting fields and car parking (should a demand be demonstrated).																		
B62	(c)	A Campbell Street Green Link Sub-plan to provide an enhanced and unified landscaped green link between Sydney Park, Simpson Park and Camdenville Park. The objective of the green link is to facilitate a more legible and navigable open space network by providing a high quality open space link to the northern side of Campbell Street between the three parks.	N	N	N	N	N	N	Y	Y	Y	Prior to permanent Surface works	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV	The Campbell Street Green Link Sub-plan will be developed and submitted for approval of the Secretary as a supporting sub plan of the Urban Design and Landscape Plan. This sub-plan will be submitted prior to the commencement of permanent built works in the relevant areas (ie Stages 2(d)ii and 2(e)ii).
B62	(c)	The Plan must be prepared by an experienced and qualified person(s) in the design and provision of open space and in consultation with the relevant councils and the community, and is to take into account the following considerations:																		
B62	(c)	(i) The provision of a consistent and coherent landscaping theme between Sydney park and Camdenville Park;																		

Pre-Construction Compliance Report



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B62	(c)	(ii) the establishment of local street conditions,																		
B62	(c)	(iii) the provision of enhanced footpath and shared path widths and the separation of walking and cycling paths from the roadway with planted verges or on street car parking,																		
B62	(c)	(iv) the provision of crossings along the length of the green link, and																		
B62	(c)	(v) reviewing on-street car parking and proposed off-street parking on the southern side of Campbell Road to maximise landscaping, pedestrian and cycling facilities																		
B62	(c)	The Plan must be consistent with and integrate with the requirements of the UDLP and the Sydney Park Enhancement Sub-plan. All facilities must be provided within 12 months of operation																		
B62	(d)	a M5 Linear Park Enhancement Sub-plan , for open space bordered by Bexley Road, Bexley, King Georges Road, Beverley Hills, adjoining the M5 Motorway, to connect and enhance the parkland and to offset amenity and open space impacts. The Plan must be prepared and implemented in consultation with relevant Councils, the community and the UDRP and must identify (and consider), but not be limited to:	N	N	N	Y	Y	N	N	N	Y	Prior to permanent surface works	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV	The M5 Linear Park Enhancement Sub-plan will be developed and submitted for approval of the Secretary as a supporting sub plan of the Urban Design and Landscape Plan. This sub-plan will be submitted prior to the commencement of permanent built works in the relevant areas (ie Stages 2(a)ii and 2(b)ii).
B62	(d)	(i) identification of park users and their needs,																		
B62	(d)	(ii) amenity of communities adjoining the park,																		
B62	(d)	(iii) outcomes of consultation and how issues raised have been considered,																		
B62	(d)	measures to enhance active uses and the recreational value of the park (including																		
B62	(d)	(iv) consideration of active recreational and fitness facilities), and																		
B62	(d)	(v) measures to activate and enhance the surveillance of the Kindilan Underpass (including consideration of sight lines, splayed entrances, lighting, public art, and recreational facilities																		
B62	(d)	Notwithstanding the above, the Kindilan underpass must include CCTV surveillance that meets the requirements of NSW Police and the relevant council																		
B62	(e)	an Alexandra Canal Sub-plan which details the design and integration of the bridges over the Alexandra Canal, including a Heritage Impact Assessment addressing any heritage impacts to the canal and its setting taking into account	N	N	N	N	N	N	N	Y	N	Prior to permanent built surface works	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV	The Alexandra Canal Sub-plan will be developed and submitted for approval of the Secretary as a supporting sub plan of the Urban Design and Landscape Plan. This sub-plan will be submitted prior to the commencement of permanent built works in the relevant areas (ie Stage 2(e)ii).



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		future and current accessibility plans for the Canal and the heritage sensitivity of the setting as set out in the Alexandra Canal Heritage Conservation Plan.																		
B62	(f)	a Noise Barrier Location and Design Sub-plan which includes	N	N	N	Y	Y	Y	Y	Y	N	Prior to permanent built surface works	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV	The Noise Barrier Location and Design Sub-plan will be developed and submitted for approval of the Secretary as a supporting sub plan of the Urban Design and Landscape Plan. This sub-plan will be submitted in stages prior to the commencement of permanent built works in the relevant area, ie prior to each of the stages: 2(a-e)(ii).
B62	(f)	(i) identification and confirmation of all permanent noise barrier locations associated with the SSI including new, relocated or modified barriers;																		
B62	(f)	(ii) the consultation and decision making process for all new, relocated or modified permanent noise barriers associated with the SSI,																		
B62	(f)	(iii) assessment of the potential impacts of the permanent noise barriers including visual amenity, overshadowing and connectivity and community cohesion,																		
B62	(f)	(iv) consideration of safer safety by design principles, the WestConnex Urban Design Framework, RMS Design Guidelines																		
B62	(f)	(v) adjacent property owner concerns and preferences regarding barrier design and location, and																		
B62	(f)	(vi) justification for the final design of new, relocated or modified permanent barriers.																		
B62	(f)	The permanent barrier design options must be developed in consultation with the UDRP and presented to landowners adjacent to the barriers for consultation prior to the adoption of a final design.																		
B63		The SSI must be designed to retain as many trees as possible and provide a net increase in the number of replacement trees. The Proponent must commission an independent experienced and suitably qualified arborist, to prepare a comprehensive Tree Report(s) prior to removing any trees on the periphery and/or outside the construction footprint as identified in the figures in Section 6 of the document referred to in condition A2(b), including any tree(s) removed along Euston Road. The Tree Report may be prepared for the entire SSI or separate reports may be prepared for individual areas where trees are required to be removed. The report(s) must identify the impacts of the SSI on	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design Pre-construction Construction	Y	13/05/2016	7/07/2016	8/07/2016	8/07/2016	Compliant	CDS-JV	Tree Reports are being progressively submitted to the Secretary, DPE, for approval. Tree Reports have been approved for construction compounds (approved 8/07/2016) and HV power installation (approved 15/07/2016). The final Tree Reports required for removal of trees from the Cooks River/Castlereagh Ironbark Forest at Kingsgrove and the road widening works at St Peters will be submitted to DPE prior to commencement of the relevant Stage - ie Stage 2(a) and Stage 2(e) respectively. Any required replacement trees will be planted within, or in proximity to, the project boundary in consultation with the relevant council and in accordance with this condition. Final site rehabilitation plans will be described in the Urban Design and Landscape Plan (MSN-ES-PLN-PWD-0009) once finalised.



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		trees and vegetation within and adjacent to the construction footprint. The report(s) must include:																
B63	(a)	a visual tree assessment with inputs from the design, landscape architect, construction team;																
B63	(b)	consideration of all options to amend the SSI where a tree has been identified for removal, including realignment, relocation of services, redesign of or relocation of ancillary components (such as substations, fencing, etc.) and reduction of standard offsets to underground services; and																
B63	(c)	measures to avoid the removal of trees or minimise damage to existing trees and is to ensure the health and stability of those trees to be protected. This includes details of any proposed canopy or root pruning, excavation works, site controls on waste disposal, vehicular access, storage of materials and protection of public utilities.																
B63		In the event that trees are to be removed, then replacement trees are to be planted within, or in close proximity to, the SSI boundary, including along Euston Road where feasible and reasonable. The location of the trees must be determined in consultation with the relevant council(s). The replacement trees are to have a minimum pot size of 75 litres. A copy of the report(s) must be submitted to the Secretary for approval prior to the removal, damage and/or pruning of any trees, including those affected by site establishment works. All recommendations of the report must be implemented by the Proponent, unless otherwise agreed by the Secretary																

Pre-Construction Compliance Report



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B64		The Proponent must provide a cycleway along Euston Road consistent with proposal in the document referred to in condition A2(b) and must replace the perimeter plantings along the Euston Road frontage of Sydney Park commensurate with type of plantings impacted by the SSI. Replacement plantings must be in accordance with the pot sizes specified in condition B63.	N	N	N	N	N	N	Y	N	Design Construction	N	N/A	N/A	N/A	Not yet complete	Compliant	CDS-JV	A cycleway will be provided along Euston Road consistent with the proposal provided in the EIS. Rehabilitation will be in accordance with CoA B63. The final design of the cycleway and landscaping will be described in the Urban Design and Landscape Plan (M5N-ES-PLN-PWD-0009) once finalised.	
B65		Existing residential properties (and approved residential developments) that are affected by overshadowing from the final detailed design of the SSI (including any noise mitigation measures) are to receive a minimum of three hours of direct sunlight in habitable rooms and in at least 50% of the principal private open space area between 9:00 am and 3:00 pm on 21 June. Such properties must be identified for further consideration by the Proponent in a Solar Access and Overshadowing Report which addresses compliance with these requirements.	N	N	N	Y	Y	Y	Y	Y	Within 12 months of approval or prior to construction of structures that may cause overshadowing	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	A Solar Access and Overshadowing Report will be prepared for these works, and will be lodged on or before 20 April 2017.	
B65		The Solar Access and Overshadowing Report must be submitted to the Secretary within 12 months of the SSI approval or prior to the construction of any structures that may cause overshadowing of residential premises, whichever is the sooner and must include:																		
B65	(a)	identification of potentially affected properties																		
B65	(b)	assessment of the detailed design's compliance at each property, informed by:																		
B65	(b)	(i) a review of the habitable rooms within structures,																		
B65	(b)	(ii) the size and nature of private open spaces, and																		
B65	(b)	shadow diagrams in plan and elevation at hourly intervals between 9.00 am and 3.00pm on 21 June; and																		
B65	(c)	a consultation plan to detail how potential impacts and mitigation measures will be discussed and negotiated with potentially affected property owners in the event that compliance with this condition is not achieved.																		
B65		Where existing residential development currently receives less than the required amount of solar access, existing access to sunlight should not be unreasonably reduced.																		
B65		Where affected properties include dwellings held under strata or community title, this condition must be																		



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		interpreted in relation to individual units within those properties																		
B66		No later than 12 months after the commencement of construction, unless otherwise agreed to by the Secretary, the Proponent must prepare a Community and Social Management Plan for precincts directly impacted by the SSI. The Community and Social Management Plan must be prepared by a suitably qualified and experienced person(s) and in consultation with relevant council(s) and the community and submitted to the Secretary for approval. The Community and Social Management Plan must include but is not limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Within 12 months of commencement of construction	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT	A Community and Social Management Plan will be prepared in consultation with relevant councils and be lodged on or before July 2017.
B66	(a)	identification of the social impacts of the SSI, including cumulative impacts resulting from the various stages of the SSI (including construction and operation) in directly affected precincts including –																		
B66	(a)	(i) a refined precinct-based spatial analysis based on representative local communities and stakeholders impacted by the SSI,																		
B66	(a)	(ii) at what stage the identified impact is likely to occur																		
B66	(a)	(iii) identification of stakeholders and communities directly affected by each identified impact																		
B66	(a)	(iv) assessment of the identified social impacts including type, probability and consequence																		
B66	(a)	(v) details of management and mitigation measures, including responsibilities for the implementation of each measure, and an assessment of the likely effectiveness of the measures																		
B66	(a)	(vi) identification of access and connectivity enhancements or new provisions to assist in mitigating community cohesion impacts directly resulting from the SSI including, but not necessarily limited to, community cohesion, public transport and social facility accessibility, connectivity and accessibility to goods and services,																		
B66	(a)	(vii) mechanisms for monitoring social impacts and reviewing the effectiveness of mitigation measures																		
B66	(a)	(viii) mechanisms for the reporting of social impacts during construction and operation of the SSI, and																		
B66	(a)	mechanisms for ongoing consultation with communities and key stakeholders; and																		



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B66	(b)	a Community Cohesion Program to enhance community cohesion in precincts directly affected by the SSI through initiatives including, but not limited to enhancement of open space active community involvement and engagement provision or facilitation of cycling facilities within Camdenville Park, in consultation with the relevant council, support of community initiatives and programs, and provision of grants to local community groups. The Proponent must maintain and implement the Community and Social Management Plan throughout construction and for the first three years of operation of the SSI.																		
B67	(a)	The Proponent must prepare a Residual Land Management Plan in consultation with the relevant councils. The Residual Land Management Plan must be submitted to the Secretary at least 12 months prior to the commencement of operation of the SSI. The Residual Land Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Prior to Operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	A Residual Land Management Plan will be prepared in consultation with relevant councils, and will be lodged prior to the commencement of operation.
B67	(b)	identification and illustration on a map, of all residual land following construction of the SSI, including the physical location, land use characteristics, size and adjacent land uses;																		
B67	(c)	identification of proposed uses for the each piece of residual land with consideration given to the provision of additional community uses, public recreation uses and/or affordable or social housing and the justification for the uses chosen; time frames for implementing the various components of the Residual Management Plan																		
B68		Residual land that is to be used for a public use and/or transferred to a public authority is to be in a condition suitable for the end use that does not incur additional cost to the public authority to reasonably rehabilitate or remediate the land for the future development identified in the Residual Land Management Plan	N	N	N	Y	Y	Y	Y	Y	Y	Construction Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This condition is noted by CDS-JV and will be considered during development of the Residual Land Management Plan.
B69		The Proponent must ensure that all residual land set aside for open space uses in accordance with condition B67 be available to the relevant council within 12 months of the completion of construction, unless otherwise agreed to by the Secretary	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This condition is noted by CDS-JV and will be considered during development of the Residual Land Management Plan.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)										
B70		Prior to operations, the Proponent must assist the City of Sydney Council to update and amend the Sydney Park Plan of Management to reflect the changes to the park as a result of the project. This must include investigations into enhancing Sydney Park through maximising the open space area at the eastern edge of Sydney Park, such as future integration of privately owned land along the Euston Road frontage	N	N	N	N	N	N	N	N	N	N	Prior to Operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT	This condition is noted. The Proponent will assist in the update of the Sydney Park Plan of Management prior to operations.
B71		The Canterbury Golf Course golf ball deflection fence must meet the height and width requirements of Canterbury Council. Property adjustments at the golf course must not introduce additional ongoing maintenance requirements for Canterbury Council	N	N	N	Y	N	N	N	N	N	Construction Operation	N	N/A	N/A	N/A	Ongoing	Not yet triggered	WCX M5 AT RMS CDS-JV	Discussions are ongoing with Canterbury Council in regards to the design of the fence. The golf ball deflection fence will be installed prior to the operational phase of the project.	
B72		The Proponent must design and construct the SSI 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 and operation. Any damage caused to property as a result of the SSI must be rectified or the landowner compensated, within a timeframe defined in the Construction Environmental Management Plan	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Not yet triggered	CDS-JV	Impacts to third party infrastructure will be avoided during construction of the SSI. Any damage or removal of property will be replaced or repaired, or the landowner compensated within a reasonable timeframe. Pre-construction dilapidation surveys are being undertaken in accordance with CoA B58 and subsequent post-construction surveys will be undertaken to assess any damage. Complaints regarding property damage will be managed in accordance with the approved Community Communication Strategy (M5N-CS-PLN-PWD-0008) and the Construction Complaints Management System.	
B73		The Proponent must construct and operate the SSI with the objective of minimising light spillage to residential properties and be generally consistent with the requirements of Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting. Notwithstanding, the Proponent must provide mitigation measures to manage any residual night lighting impacts to protect properties adjoining or adjacent to the project, in consultation with affected landowners	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	N	N/A	N/A	N/A	Ongoing	Not yet triggered	CDS-JV	Light spillage will be minimised and generally consistent with AS 4282-1997 'Control of the obtrusive effects of outdoor lighting'. This construction component of this condition is addressed in Section 6.12 and Appendix B of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026). The operational component of this condition is being addressed through detailed design for the operational facilities.	



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B74		The SSI must be designed and constructed to achieve an excellent 'Design' and 'As built' rating under the Infrastructure Sustainability Council of Australia infrastructure rating tool.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	N	N/A	N/A	N/A	Ongoing	Not yet triggered	CDS-JV	<p>To date CDS-JV have taken the following steps towards achieving the 'design' and 'as-built' rating under ISCA:</p> <ul style="list-style-type: none"> The project has had 2 quarterly independent audits since the ISCA registration to drive compliance and continual improvement The sustainability management plan and IS rating management sub-plan have been approved 2 quarterly reports have been submitted to show progress against IS credits for both design and as-built. Quarterly reports also include metrics on resource consumption, waste and spoil for contractual reporting and ISCA purposes. Requirements database has been set up to track ISCA credit submission status. Filing system has been developed to store credit submission forms and related ISCA evidence for 1st round of submission An internal resource with the appropriate qualifications has been engaged to drive sustainability and the ISCA process Evidence for the "management theme" requirements have largely been collected to show implementation of credits. The collation of information to meet the requirements in the Project Delivery Phase Sustainability Plan will continue through the duration of design and construction of the project Procurement templates have been adjusted to meet ISCA requirements and are in the process of implementation Continuing engagement with wider design/construct and support teams to drive delivery of ISCA strategy <p>The collation of information to meet the requirements in the Project Delivery Phase Sustainability Plan will continue through the duration of the construction of the project</p>
B75		Opportunities to reduce operational greenhouse gas emissions must be investigated during detailed design. The sustainability initiatives identified must be regularly reviewed, updated and implemented throughout the design development and construction phase, and annually during the operational phases.	N	N	N	Y	Y	Y	Y	Y	Y	Design Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	<p>Opportunities to reduce the operational greenhouse gas emissions have continually been identified and investigated and are being identified through the detailed design process. In the past months the following activities have been taking place to ensure sustainable opportunities are being identified:</p> <ul style="list-style-type: none"> The process has been finalised through the approval of the Sustainability Management Plan and the associated Energy Efficiency and Greenhouse Gas Emission Strategy; The sustainability team is working with the design leads to identify sustainability initiatives within design. Sustainability manager is reviewing design reports that are relevant to sustainability and providing advice around potential opportunities All opportunities have been recorded on a single register and are in the process of being quantified. The initiatives register is regularly reviewed and updated following workshops, meetings, training and awareness campaigns to maintain an accurate status of sustainability initiatives Operational and delivery energy and emissions modelling to be developed to provide benchmarks to monitor energy use against. To be provided in the greenhouse gas inventory. <p>The initiatives register will be regularly reviewed and updated following workshops, meetings, training and awareness campaigns to maintain an accurate status of sustainability initiatives.</p>

Pre-Construction Compliance Report



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C1		Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a Community Communication Strategy. The Community Communication Strategy must be submitted to the Secretary for approval. The Community Communication Strategy must provide mechanisms to facilitate communication between the Proponent (and its contractor(s)), the Environmental Representative (refer condition D1), the relevant council(s) and community stakeholders (particularly adjoining landowners) on the design and construction environmental management of the SSI. The Community Communication Strategy must include, but not be limited to	N	N	N	Y	Y	Y	Y	Y	Y	Pre-Construction	Y	13/05/2016	14/07/2016	27/07/2016	Not yet complete	Compliant	CDS-JV	A Community Communication Strategy (M5N-CS-PLN-PWD-0008) was submitted to the Secretary on 13 May 2016 for approval. DPE approved the Strategy on 27/07/16.	
C1	(a)	identification of stakeholders to be consulted as part of the Community Communication Strategy, including affected and adjoining landowners, key community and business groups, and community and social service organisations																			
C1	(b)	procedures and mechanisms for the regular distribution of accessible information to community stakeholders on construction progress and matters associated with environmental management, including provision of information in appropriate community languages;																			
C1	(c)	the formation of community-based forums that focus on key environmental management issues for the SSI. The Community Communication Strategy must provide detail on the structure, scope, objectives and frequency of the community-based forums;																			
C1	(d)	procedures and mechanisms through which the community stakeholders can discuss or provide feedback to the Proponent and/or Environmental Representative in relation to the environmental management and delivery of the SSI;																			
C1	(e)	procedures and mechanisms through which the Proponent can respond to enquiries or feedback from the community stakeholders in relation to the environmental management and delivery of the SSI;																			
C1	(f)	procedures and mechanisms that would be implemented to resolve issues/disputes that may arise between parties on the matters relating to environmental management and the																			



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C1	(g)	delivery of the SSI. This may include the use of a suitably qualified and experienced independent mediator; and																		
C1		procedures and mechanisms to manage the ongoing provision of services for the WestConnex Acquisition Assistance Line, as required by condition C2, and procedures for the notification of the contact details for this assistance line to relocated persons																		
C1	(a)	Issues that must be addressed through the Community Communication Strategy include (but are not limited to):																		
C1	(a)	Traffic management (including property access, pedestrian access);																		
C1	(b)	Air quality																		
C1	(c)	Heritage matters																		
C1	(d)	Landscaping and urban design matters																		
C1	(e)	Construction staging, hours and activities																		
C1	(f)	Noise, vibration mitigation and management, and																		
C1	(g)	Water quality, hydrology and flooding matters																		
C1		The Proponent must maintain and implement the Community Communication Strategy throughout construction of the SSI.																		
C2		The Proponent must maintain and operate a toll-free WestConnex Acquisition Assistance Line for a period of up to six months following completion of the final acquisition required for the SSI, unless otherwise agreed by the Secretary. The WestConnex Acquisition Assistance Line must provide an ongoing dispute resolution, counselling program and contact information to relevant services for all relocated persons. The WestConnex Acquisition Assistance Line must also provide first language support for households with English as a second language. The management of the assistance line is to be outlined within the Community Communication Strategy as required by condition C1 and is to be maintained and operated separately from the standard complaints and enquiries procedure. The Proponent must provide all relevant contact details for the WestConnex Acquisition Assistance Line to relocated persons prior to the commencement of construction.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	WCX M5 AT	
																			The services available to support residents who are being relocated as a result of property acquisition include: <ul style="list-style-type: none"> The WestConnex Assist counselling service - 'Converge' – which is the counselling service provided by WCX M5 AT Pty Ltd. It is a free, independent and confidential counselling service and is still available for use for relocated persons Provision of an independent service to vulnerable households to assist with their relocation Community relations support to respond to community issues, concerns and requests and to offer a translation service to households for whom English is a second language RMS have contacted residential and commercial tenants who are currently renting properties to be acquired for the project, to discuss timeframes for acquisition and compensation (where applicable). Residents who are having their properties acquired or are relocating due the New M5 project (e.g. tenants) have been advised to contact WestConnex directly to discuss available support services. 	

Pre-Construction Compliance Report



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C3		Prior to the commencement of site establishment works, or as otherwise agreed by the Secretary, the Proponent must ensure that the following are available for community enquiries and complaints for the duration of construction:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-establishment	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV WCX M5 AT	WCX M5 AT established the community communications information for complaints and enquiries during the preparation of the Environmental Impact Statement for the Project, fulfilling the requirements of this condition. These same consultation mechanisms are being utilised by CDS-JV during the pre-construction and construction phases of the project to ensure continuity of contact information for the community and stakeholders. The telephone number (1800 660 248), the postal address and the email address have been published in newspapers during pre-construction phase. The information is available on the project website, being: www.westconnex.com.au http://www.westconnex.com.au/explore_the_route/stage_2/new_m5_resources.html	
C3	(a)	a toll-free 24 hour telephone number(s) on which complaints and enquiries about the SSI may be registered;																				
C3	(b)	a postal address to which written complaints and enquires may be sent;																				
C3	(c)	an email address to which electronic complaints and enquiries may be transmitted;																				
C3	(d)	a mediation system for complaints unable to be resolved; and																				
C3	(e)	a mechanism for community members to make enquiries in common community languages of the area																				
C3		The telephone number, the postal address and the email address must be published in newspaper(s) circulating in the local area including in newspapers of culturally and linguistically diverse communities affected by the SSI prior to the commencement of construction and prior to the commencement of operation. This information must also be provided on the website (or dedicated pages) required by this approval and available in common community languages.																				
C4		Prior to the commencement of site establishment works, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a Construction Complaints Management System consistent with AS/NZS 10002:2014 Guidelines for Complaint management in Organisations and maintain the Construction Complaints Management System for the duration of construction and up to 12 months following completion of construction of the SSI. Information on all complaints received, including the means by which they were addressed and whether resolution was reached, with or without mediation, must be maintained in a complaints register and included in the construction compliance reports required by this approval. The information contained within the Construction Complaints Management System must be made available to the Secretary on request.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction Operation	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	WCX M5 AT established the complaints management system to comply with this condition during the preparation of the Environmental Impact Statement for the Project, fulfilling the requirements of this condition. This same consultation manager system is being utilised by CDS-JV during the construction phase of the project to ensure consistency in reporting of enquiries and complaints.	

Pre-Construction Compliance Report



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C5		Prior to the commencement of site establishment works, or as otherwise agreed by the Secretary, the Proponent must establish and maintain a new website, or dedicated pages within an existing website, for the provision of electronic information associated with the SSI, for the duration of construction and for 12 months following commencement of operation of the SSI. The Proponent must, subject to confidentiality, publish and maintain up-to-date information on the website or dedicated pages including, but not limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction Operation	N	N/A	N/A	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV	The website for the Project was established by SMC during the preparation of the Environmental Impact Statement, and will be maintained through the construction phase of the project. CDS-JV will provide relevant project information to be uploaded to the website. The website is: www.westconnex.com.au Further detail of documentation for the new M5 Project can be found at: http://www.westconnex.com.au/explore_the_route/stage_2/new_m5_resources.html
C5	(a)	Information on the current implementation status of the SSI																		
C5	(b)	a copy of the documents referred to in condition A2, and any documentation supporting modifications to this approval that may be granted from time to time																		
C5	(c)	a copy of this approval and any future modification to this approval																		
C5	(d)	a copy of each relevant environmental approval, licence or permit required and obtained in relation to the SSI																		
C5	(e)	a copy of each current report, plan, or other document required under this approval																		
C5	(f)	the outcomes of compliance tracking in accordance with condition A14 of this approval																		
C5	(g)	details of contact point(s) to which community complaints and enquiries may be directed, including a telephone number, a postal address and an email address; and																		
C5	(h)	information on how to receive important information in the common community languages of the area																		
D1		Prior to the commencement of construction of the SSI, or as otherwise agreed by the Secretary, the Proponent must appoint a suitably qualified and experienced Environmental Representative(s) that is independent of the design and construction personnel, and that has been approved by the Secretary. The Proponent must employ the Environmental Representative(s) for the duration of construction, or as otherwise agreed by the Secretary. The Environment Representative(s) must:	N	N	N	Y	Y	Y	Y	Y	Y	Pre-construction	Y	31/05/2016	N/A	31/05/2016	Ongoing	Compliant	CDS-JV WCX M5 AT	The nominated Environmental Representative (ER) for the project, [REDACTED] was approved by DPE on 31/05/2016.
D1	(a)	be the principal point of advice in relation to the environmental performance of the SSI;																		
D1	(b)	monitor the implementation of environmental management plans and monitoring programs required under this approval and advise the Proponent																		

Pre-Construction Compliance Report



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D1	(c)	upon the achievement of these plans/programs;																		
D1	(d)	have responsibility for considering, and advising the Proponent on, matters specified in the conditions of this approval, and other licences and approvals related to the environmental performance and impacts of the SSI;																		
D1	(e)	ensure that environmental auditing is undertaken (but not undertake the audit) in accordance with the Proponent's Environmental Management System(s);																		
D1	(f)	be given the authority to approve/reject minor amendments to the Construction Environment Management Plan. What constitutes a "minor" amendment must be clearly explained in the Construction Environment Management Plan;																		
D1	(g)	be given the authority and independence to require reasonable steps be taken to avoid or minimise unintended or adverse environmental impacts; and be consulted in responding to the community concerning the environmental performance of the SSI where the resolution of points of conflict between the Proponent and the community is required.																		
D2		The Environmental Representative must prepare and submit to the Secretary a monthly report on the Environmental Representative's actions and decisions on matters specified in condition D1 for the preceding month. The reports must be submitted within seven days for the end of each month for the duration of construction of the SSI, or as otherwise agreed by the Secretary. Notwithstanding, the Environmental Representative must be given the independence to report to the Secretary at any time and/or at the request of the Secretary.	N	N	N	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	The ER will commence monthly reporting at the commencement of construction.



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D3		Soil and water management measures consistent with Managing Urban Stormwater - Soils and Construction Vols 1 and 2, 4th Edition (Landcom, 2004) must be employed during the construction of the SSI to minimise soil erosion and the discharge of sediment and other pollutants to land and/or waters. Where available and practicable, and of appropriate chemical and biological quality, stormwater, recycled water or other water sources must be used in preference to potable water for construction activities, including dust control.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Not yet triggered	CDS-JV	Erosion, sedimentation and drainage controls will be implemented as per Site Environmental Plans (or erosion and sediment control plans), including temporary sediment basins, temporary water treatment plants, sediment fencing, check dams, temporary ground stabilisation, diversion berms or site regrading. These controls will be consistent with Managing Urban Stormwater – Soils and Construction Vols 1 and 2, 4th Edition (the Blue Book) (Landcom, 2004). Where available and practicable, and of appropriate chemical and biological quality, collected water will be reused onsite, eg for dust suppression. Additional opportunities for reusing water onsite or for construction will be investigated and implemented where feasible and reasonable. This condition is included in the Construction Soil and Water Management Plan (M5N-ES-PLN-PWD-0005) and the Water Reuse Strategy, to be finalised prior to commencement of tunnelling works.
D4		The Proponent must ensure any siphonic based water management system implemented during construction is removed and, where applicable, replaced with an adequate permanent drainage system.	N	N	N	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This condition and measure is incorporated into the Construction Soil and Water Management Plan (M5N-ES-PLN-PWD-0005). Current plans do not require any siphonic based water management systems.
D5		The Proponent must immediately notify DPI (Water) of any groundwater bores removed or damaged during construction and operation of the SSI. In the event that a groundwater bore is removed or damaged, the Proponent must repair or replace the bore (unless otherwise advised by DPI (Water)), as applicable within a timeframe agreed to by DPI (Water).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	CDS-JV will immediately notify DPI Water if any groundwater bores are removed or damaged over the course of the works. Unless otherwise advised by DPI Water any damage or removal of groundwater bores will be replaced or repaired or the landowner compensated within a reasonable timeframe.
D6		A geotechnical model of representative geological and groundwater conditions must be prepared prior to excavation and tunnelling in subject area(s) to identify geological structures and groundwater features. This model must include details of proposed excavations and tunnels, construction staging, and identify surface and sub-surface structures and infrastructure which may be impacted by the SSI, including the specific attributes of those structures. The Proponent must use this model to assess the predicted settlement, ground movement, stress redistribution and horizontal strain profiles caused by excavation and tunnelling on adjacent property and infrastructure.	N	N	N	Y	Y	Y	Y	Y	Y	Prior to excavation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	The geotechnical model of representative geological and groundwater conditions will be prepared prior to excavation and tunnelling in subject areas. This CoA is addressed in the following documentation: <ul style="list-style-type: none"> • Geotechnical Interpretive Report • Ground Movement Assessment Report • Groundwater Modelling report • Instrumentation and Monitoring Plan 	



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D7		The Proponent must undertake a review of property and infrastructure at risk from damage to determine appropriate settlement criteria to prevent damage, prior to commencement of construction activities that may pose a settlement risk.	N	N	N	N	N	N	N	N	Y	Prior to tunnelling	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	The Ground Movement Assessment Report will fulfil this condition and is being prepared prior to finalising detailed design to enable feedback into the design. This is being undertaken prior to construction that may influence ground settlement.
D8		Should the geotechnical model in condition D6 identify exceedances of the criteria established in condition D7 or in Table 1 (whichever is the lower), the Proponent must identify and implement mitigation measures such as appropriate support and stabilisation structures in consultation with the relevant land and/or infrastructure owners prior to the commencement of construction to ensure where possible that underground services, infrastructure and adjacent buildings will not experience settlements exceeding the criteria. Table 1 - Settlement Criteria (refer sheet 2) The above criteria do not remove any responsibility from the Proponent for the protection of existing structures or for rectifying any damage resulting from the SSI	N	N	N	N	N	N	N	N	Y	Prior to tunnelling	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Measures will be implemented if exceedances are identified from the geotechnical model required as per condition D8.
D9		Settlement criteria for individual utility structures and infrastructure must be determined in consultation with the relevant authorities prior to the commencement of any construction potentially affecting the individual utility structure or infrastructure.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Prior to works affecting utilities/infrastructure	N	N/A	N/A	N/A	Ongoing	Not yet triggered	CDS-JV	Settlement criteria will be determined in consultation with the relevant authorities and reported in the Ground Movement Design Report. The Ground Movement Design Report will inform detailed design for construction activities that have the potential to affect individual utility structure or infrastructure.
D10		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 vibration, construction ground-borne noise and operational noise. The survey may be undertaken on a progressive basis but must be undertaken in any one area prior to the commencement of construction works which generate construction vibration or ground-borne noise in that area. The results of the survey must be included in the (or an updated) Construction Noise and Vibration Management Plan as required by condition D68(b)	Y	Y	Y	N	N	N	N	N	N	Pre-construction	N	N/A	N/A	N/A	28/04/2016	Compliant	CDS-JV	CDS-JV has engaged the noise and vibration specialists, Renzo Tonin & Associates, who have prepared a detailed land use survey. The results of the survey are provided as Appendix B of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003)

Pre-Construction Compliance Report



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D11		Prior to construction, properties that are at risk from construction vibration must be notified and incorporated into the Construction Noise and Vibration Management Plan as required by condition D68(b).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	CDS-JV has engaged the noise and vibration specialists, Renzo Tonin & Associates, to assess the vibration impacts of the project. This requirement is addressed in the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003). Notification arrangements are outlined in the approved Community Communication Strategy (M5N-CS-PLN-PWD-0008)
D12		Construction activities associated with the SSI must be undertaken during the following standard construction hours:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Except as permitted by the conditions of this approval or an EPL, works will be restricted to the nominated timeframes. This is addressed in the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003).
D12	(a)	7:00 am to 6:00 pm Mondays to Fridays, inclusive																		
D12	(b)	8:00am to 1:00pm Saturdays; and																		
D12	(c)	at no time on Sundays or public holidays																		
D13		Notwithstanding condition D12, tunnelling may be undertaken 24 hours, seven days per week. Other activities associated with tunnelling (such as spoil haulage if approved under the Spoil Management Plan, deliveries, work area establishment, temporary road and intersection modifications, roads/cut-and-cover/dive structures and approach roads and ramps, excavation and ground support, civil, mechanical, and electrical, and ventilation facilities construction) may be undertaken outside of the hours specified in condition D12 where allowed in accordance with condition D15.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	The allowance for 24 hour operations of tunnelling activities is described in Section 4.1.1 and 4.1.2 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003). Construction hours for activities associated with tunnelling will be assessed for compliance with condition D15 in accordance with the Out of Hours Works Protocol (Appendix D to the Construction Noise and Vibration Management Plan).
D14		Except as permitted by an EPL, activities resulting in impulsive or tonal noise emissions must only be undertaken:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Except as permitted by the conditions of this approval or an EPL, works will be restricted to the nominated timeframes. This is addressed in Section 4.1.3 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003), and the Out of Hours Works Protocol (Appendix E to the Construction Noise and Vibration Management Plan).
	(a)	between the hours of 8:00 am to 6:00 pm Monday to Friday																		
	(b)	between the hours of 8:00am to 1:00 pm Saturday; and																		
	(c)	in continuous blocks not exceeding three hours each with a minimum respite from those activities and works of not less than one hour between each block For the purposes of this condition, 'continuous' includes any period during which there is less than a one hour respite between ceasing and recommencing any of the work the subject of this condition.																		
D15		Notwithstanding conditions D12 and D14, construction works associated with the SSI may be undertaken outside the hours specified under those conditions in the following circumstances:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement is addressed in Section 4.1.4 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003), and the Out of Hours Works Protocol (Appendix E to the Construction Noise and Vibration Management Plan).



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
D15	(a)	construction works that cause LAeq (15 minute) noise levels that are:																		
D15	(a)	(i) No more than 5 dB(A) above rating background level at any residence in accordance with the Interim Construction Noise guideline (DECC, 2009), and																		
D15	(a)	(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																		
D15	(a)	(iii) continuous or impulsive vibration values, measured at the most affected residence are no more than those for human exposure to vibration, specified in table 2.2 of Assessing vibration: a technical guideline (DEC, 2006), and																		
D15	(a)	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 Assessing vibration: a technical guideline (DEC, 2006); or																		
D15	(b)	where a negotiated agreement has been reached with affected receivers, where the prescribed noise and/or vibration levels cannot be achieved; or																		
D15	(c)	for the delivery of materials required by the police or other authorities for safety reasons; or																		
D15	(d)	where it is required in an emergency to avoid the loss of lives, property and/or to prevent environmental harm; or																		
D15	(e)	construction works approved through an Out-Of-Hours Work Protocol prepared as part of the Construction Noise and Vibration Management Plan required by condition D68(b), provided the relevant council, local residents and other affected stakeholders and sensitive receivers are informed of the timing and duration at least five days and no more than 14 days prior to the commencement of the works; or																		
D15	(f)	construction works approved through an EPL.																		
D16		The Proponent must implement all reasonable and feasible noise mitigation measures with the aim of achieving the following construction noise management levels and vibration criteria:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	
D16	(a)	construction noise management levels established using the Interim Construction Noise Guideline (DECC, 2009);																		
D16	(b)	vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure);																		



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D16	(c)	Standard AS 2187.2- 2006 Explosives-Storage and Use- Use of Explosives																		
D16	(d)	BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2' as applicable to Australian conditions; and																		
D16	(e)	the vibration limits set out in the German Standard DIN 4150-3: Structural Vibrationeffects of vibration on structures (for structural damage).																		
D16		Any construction activities identified as exceeding the construction noise management levels and/or vibration criteria must be managed in accordance with the Construction Noise and Vibration Management Plan required by condition D68(b).																		
D16		<i>Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction NML.</i>																		
D17	(a) (b)	Feasible and reasonable noise mitigation measures should be applied to construction activities when the following residential ground-borne noise levels are exceeded: evening (6:00 pm to 10:00 pm)- internal LAeq(15 minute): 40 dB(A); and night (10:00pm to 7:00am)- internal LAeq(15 minute): 35 dB(A). The mitigation measures should be outlined in the Construction Noise and Vibration Management Plan, including the Out-of-Hours Work Protocol, required by condition D68(b).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Mitigation measures will be implemented where ground-borne noise levels exceed the nominated levels. These measures are provided in Section 6 of the Construction Noise and Vibration Management Plan (CNVMP; M5N-ES-PLN-PWD-0003) and additional specific mitigation measures are provided in the CNVIS as described under Section 5.1 and summarised in Appendix D. A preliminary CNVIS has been prepared for tunnelling works (Appendix D.7 of the CNVMP) and will be finalised prior to tunnelling activities (Stage 3 activities) and will outline feasible and reasonable mitigation measures to be applied to meet the criteria for ground borne noise.
D18		Wherever practical, piling activities that affect sensitive receivers must be undertaken using quieter alternative methods than impact or percussion piling, such as bored piles or vibrated piles.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	CDS-JV will consider alternative work methods, including alternative piling methods, where activities may affect sensitive receivers. This requirement is addressed in Section 6.2 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003).

Pre-Construction Compliance Report



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D19		The Proponent must implement operational noise mitigation measures (such as noise barriers or at-property architectural treatments) in areas where the documents referred to in conditions A2(b) and A2(c) have identified the receivers would be subject to construction noise impacts and in areas where existing noise barriers are to be altered or removed prior to commencement of construction, where feasible and reasonable. Where this is not feasible and reasonable, the Proponent must submit to the Secretary for approval a report providing justification as to why along with details of the temporary measures that would be implemented to reduce construction noise impacts until such time that the operational noise mitigation measures are implemented. The report must be provided to the Secretary prior to the commencement of construction works which would affect the identified receivers. Nothing in this condition prevents the Proponent from submitting separate reports for separate areas of construction.	N	N	N	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	CDS-JV will implement operational noise mitigation measures early in the construction program, where possible. This requirement is addressed in Section 6.2 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003) as well as the CNVIS. Where this cannot be implemented, a report stating why and the temporary measures to be used, will be provided to DP&E prior to commencement of the relevant construction works.
D20		The Proponent must develop and implement a Temporary Noise Barrier Strategy which includes:	Y	Y	N	Y	Y	Y	Y	Y	N	Pre-construction, construction	Y	13/05/2016	17/06/2016	24/06/2016	Ongoing	Compliant	CDS-JV	The Temporary Noise Barrier Strategy is being staged and submitted to DPE as relevant to each stage of the project, and will therefore be prepared and submitted for approval as follows: - A Temporary Noise Barrier Strategy for the Kingsgrove construction compound sites (C1-C3) has been approved (23/06/2016) for Stage 1(a), which specifically addresses D20(a)(i & ii) - Temporary Noise Barrier Strategies for the Bexley sites (C4-C6), Arncliffe (C7), and St Peters Interchange sites (C8-C11), which address D20(a)(iv) have been submitted for approval - Consideration of noise barriers along Campbell Road, Campbell Street and Euston Road (D20(a)(iii)) will be addressed in a separate document to be submitted prior to commencement of construction works at these locations (Stage 2(e)i). This is anticipated to be October 2016.
D20	(a)	Identification and confirmation of all temporary noise barriers including -																		
D20	(a)	(i) the provision of a temporary noise barrier on the northern side of the Kingsgrove North construction compound to provide noise mitigation to highly affected residents at a level greater than that identified in the documents referred to in condition A2(b),																		
D20	(a)	(ii) consideration of the installation of temporary noise barriers on the southern and northern side of the M5 East Motorway during the relocation of the existing permanent noise barriers (or detail on why these noise barriers are not considered feasible and reasonable),																		
D20	(a)	(iii) consideration of the installation of temporary noise barriers along Campbell Road, Campbell Street and Euston Road (or detail on why these noise barriers are not considered feasible and reasonable), and temporary noise barriers around construction compounds;																		

Pre-Construction Compliance Report



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D20	(b)	the consultation and decision-making process for all temporary noise barriers; and																		
D20	(c)	an acoustic report detailing the final barrier heights, material analysis and predicted benefits																		
D20		The temporary barrier options must be developed in consultation with the landowners adjacent to the barrier locations prior to the adoption of a final design.																		
D20		The Temporary Noise Barrier Strategy must be approved by the Secretary prior to site establishment works or construction works at the Kingsgrove North construction compound, the permanent noise barriers on the northern and southern side of the MS East Motorway are removed, and/or road widening works are undertaken along Campbell Road, Campbell Street or Euston Road.																		
D21		All acoustic sheds and non-acoustic sheds must be erected at construction ancillary facilities as soon as site establishment works at the facilities are completed and prior to undertaking any works or activities which are required to be conducted within the sheds.	N	N	N	Y	Y	Y	Y	Y	Y	Pre-construction	N	N/A	N/A	N/A	Not yet complete	Compliant	CDS-JV	The approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) addresses this condition. CDS-JV has programmed the erection of acoustic sheds and non-acoustic sheds at construction ancillary facilities in accordance with this condition.
D22		The Proponent must conduct vibration testing prior to commencing vibration generating activities that have the potential to impact on heritage items and vibration monitoring during initial vibration generating activities to identify minimum working distances to retained heritage items to prevent cosmetic damage to these items. In the event that the vibration testing and 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 feasible and reasonable mitigation measures, unless otherwise agreed to by the Secretary. Vibration monitoring must be undertaken where structures are identified to be within safe working distances of vibration generating equipment activities	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Requirements for assessment and monitoring of vibration are identified in the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003) and the relevant CNVIS as described in Sections 5.1 and 5.2 of the CNVMP. If vibration intensive works are required within the safe working distances, vibration monitoring or attended vibration trials will be undertaken at the outset of these works to ensure that levels are within relevant criteria.



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D23		The Proponent must undertake noise monitoring during initial high noise generating activities (such as piling, rock hammering, jack hammering) to accurately establish the LAeq to LA1(1 minute) differential and confirm the number of sensitive receivers which may experience sleep disturbance as a result of construction of the SSI during the evening and night-time periods. Management measures must be employed to minimise sleep disturbance impacts in accordance with the Construction Noise and Vibration Management Plan required by condition D68(b).	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Requirements for assessment and monitoring of night-time high noise generating activities are identified in Sections 4.2.3 and 4.2.4 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003). Recommended management measures are also identified in Section 6.2 of the CNVMP to minimise sleep disturbance impacts
D24		The Proponent must consult with potentially-affected community, religious, educational institutions and vibration-sensitive business and critical working areas (such as theatres, laboratories and operating theatres) to ensure that, where feasible and reasonable, noise generating construction works in the vicinity of the affected receivers are not timetabled during sensitive periods, unless other reasonable arrangements to the affected institutions are made at no cost to the affected institution. Consultation must be undertaken at least five days prior to undertaking noise generating construction works that would impact on the potentially affected vibration-sensitive receivers.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Community consultation prior to and during the construction activities will be undertaken in accordance with the Community Communication Strategy (M5N-CS-PLN-PWD-0008). Key stakeholders required by this condition are identified in this Strategy. Where feasible and reasonable, noise-generating construction works would be avoided during sensitive periods in the vicinity of the receiver. These requirements are incorporated into Section 6 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003) and the Community Communication Strategy (M5N-CS-PLN-PWD-0008).
D25		During construction, proponents of other construction works in the vicinity of the SSI must be consulted and reasonable steps taken to coordinate works to minimise impacts on, and maximise respite for, affected sensitive receivers.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Where applicable, proponents of other construction works in the vicinity of the SSI will be consulted and reasonable steps would be undertaken to minimise impacts on sensitive receivers. This requirement is incorporated into Section 6 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003).
D26		The Proponent is to ensure that construction vehicle contractors operate so as to minimise any sleep disturbance impacts. Measures that could be used include toolbox talks, contracts that include provisions to deal with unsatisfactory noise performance for the vehicle and/or the operator, and specifying non-tonal movement alarms in place of reversing beepers or alternatives such as reversing cameras and proximity alarms, or a combination of these, where tonal alarms are not mandated by legislation.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Recommended management measures to minimise sleep disturbance are identified in the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003) to minimise sleep disturbance impacts.
D27		Use of compression brakes must not be permitted for construction vehicles associated with the SSI during construction, unless in an emergency situation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Compression brakes will not be used unless required in an emergency. This is addressed in Section 6 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003).

Pre-Construction Compliance Report



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D28		Should blasting be required, the Proponent must prepare a Blast Management Strategy in consultation with the EPA and submit the Blast Management Strategy to the Secretary prior to any blasting. The Blast Management Strategy must demonstrate that all blasting and associated activities will be undertaken in a manner that will not generate unacceptable noise and vibration impacts or pose a significant risk impact to residences and sensitive receptors. The Blast Management Strategy must also address the principles outlined in Hazardous Industry Planning Advisory Paper No 6: Hazard Analysis (Department of Planning, January 2011) and Assessment Guideline: Multi-Level Risk Assessment (Department of Planning and Infrastructure, May 2011) for the handling and storage of hazardous materials. Issues to be considered in the Blast Management Strategy must include, but not be limited to:	N	N	N	N	N	N	N	N	Y	Prior to blasting	N	Pending	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	If blasting is proposed to be undertaken for the project, a Blast Management Strategy will be prepared to comply with this condition, once blasting options have been assessed. If required, the Blast Management Strategy would be prepared and lodged for DP&E approval prior to the commencement of any blasting, which would be undertaken during stage 3 works.
D28	(a)	details of blasting to be performed, including location, method and justification of the need to blast;																		
D28	(b)	identification of any potentially affected noise and vibration sensitive sites including heritage buildings and utilities;																		
D28	(c)	establishment of appropriate criteria for blast overpressure and ground vibration levels at each category of noise sensitive site;																		
D28	(d)	details of the storage and handling arrangements for explosive materials and the proposed transport of those materials to the construction site;																		
D28	(e)	identification of hazardous situations that may arise from the storage and handling of explosives, the blasting process and recovery of the blast site after detonation of the explosives;																		
D28	(f)	determination of potential noise and vibration and risk impacts from blasting and appropriate monitoring and best management practices to minimise and manage any blasting impacts and assess compliance with conditions D34 and D35; and																		
D28	(g)	community consultation procedures.																		
D29		The vibration levels for blasting activities, including both above ground and underground work, must meet the requirements of conditions D34 and D35.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.

Pre-Construction Compliance Report



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D30		Blasts must be limited to an average of one single detonation in any one day, per sensitive receiver, and a maximum of six per week per sensitive receiver, unless otherwise agreed by the EPA through consultation on the Blast Management Strategy. <i>Note:</i> <i>For the purposes of this condition a single detonation may involve a number of individual blasts fired in quick succession in a discrete area.</i>	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.
D31		For any section of tunnel construction where blasting is proposed, a series of initial trials at reduced scale must be conducted prior to production blasting to determine site-specific blast response characteristics and to define allowable blast sizes to meet the airblast overpressure and ground vibration limits in conditions D34 and D35.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.
D32	(a)	Blasting associated with the project must only be undertaken during the following hours: 9:00 am to 5:00 pm, Monday to Friday, inclusive;	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.
D32	(b)	9:00 am to 1:00 pm Saturday; and	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	
D32	(c)	at no time on Sunday or on a public holiday,	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	
D32		or as otherwise allowed for by the EPA and outlined in the Blast Management Strategy. This condition does not apply in the event of a direction from police or other relevant authority for safety or emergency reasons to avoid loss of life, property loss and/or to prevent environmental harm.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	
D33		Where vibration levels generated by blasting exceed the acceptable vibration dose values, feasible and reasonable mitigation measures must be considered and implemented.	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.
D34		Airblast overpressure generated by blasting associated with the SSI must not exceed the criteria specified in Table 2 when measured at the most affected residence or other sensitive receiver. Table 2 - Airblast Overpressure Criteria (refer sheet 2)	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.
D35		Ground vibration generated by blasting associated with the SSI must be limited for human comfort to the criteria specified in Table 3 when measured at the most affected residence or other sensitive receiver. Table 3 - Ground Vibration Limits for Human Comfort (AS 2187.2) (refer sheet 2)	N	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.

Pre-Construction Compliance Report



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D35		<p><i>Notes:</i> A sensitive site includes houses and low rise residential buildings, theatres, schools, and other similar buildings occupied by people. The recommendations in Table J4.5(A) of AS 2187.2 – 2006 Explosives – Storage and Use – Use of Explosives are intended to be informative and do not override statutory requirements with respect to human comfort limits set by various authorities. They should be read in conjunction with any such statutory requirements and with regard to their respective jurisdictions.</p>																	
D36		<p>The blasting criteria identified in conditions D34 and D35 do not apply where the Proponent has a written agreement with the relevant landowners to exceed the criteria. The Proponent must submit to the Secretary details on the propose increased blasting limits, where and when the blasting would occur, the mitigation and monitoring procedures that would be implemented and details of the consultation undertaken with the relevant landowners.</p> <p>The following exclusions apply to the application of this condition:</p> <p>(a) any agreements reached may be terminated by the landowner at any time should concerns about the increased blasting limits be unresolved</p> <p>(b) the blasting limit agreed to under any agreement can at no time exceed a maximum Peak Particle Velocity vibration level of 25 mm/s or maximum airblast overpressure level of 125 dBL(Peak); and</p> <p>(c) the provisions under this condition (to increase applicable blast criteria in agreement with the relevant landowners) do not apply where the property is a heritage item</p>	N	N	N	N	N	N	N	Y	Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	This requirement will be addressed by the Blast Management Strategy, if required.



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D37		Prior to the commencement of construction in proximity to, or affecting, a heritage item or contributory item in a heritage conservation area, the Proponent must complete the archival recordings, including photographic recording of the heritage items, unless otherwise agreed by the Secretary. The archival recording must be undertaken by a qualified and experienced heritage consultant, in accordance with the How to Prepare Archival Records of Heritage Items (2003) guidelines issued by the Heritage Council of NSW. Within 12 months of completing the archival recording, or as otherwise agreed by the Secretary, the Proponent must submit a Heritage and Contributory Item Archival Recording and Research Report containing the archival and photographic recordings and historical research, to the Department, the Heritage Council of NSW, the local library, and the local Historical Society in the respective local government area(s).	Y	Y	Y	Y	Y	Y	Y	Y	N	Prior to construction	N	N/A	N/A	N/A	Not yet complete	Compliant	CDS-JV	Archival recording is being undertaken by the project's heritage specialists, Extent Heritage, prior to construction in accordance with the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006) and the relevant guidelines. The requirement for a Heritage and Contributory Item Archival Recording and Research Report is also addressed in the CHSP and will be submitted to the relevant agencies, libraries and historical societies at the completion of the archival recording. Archival recording has been completed for the following items: - Dynamo Service Garage (30/05/2016) - St Peters Brickpit Geological Site (20/04/2016) - Rudders Bond Store (15/06/2016)
D38		The Proponent must complete archival recordings for any impacted part of the heritage conservation area prior to the commencement of construction within a respective heritage conservation area. Consultation with the Heritage Council of NSW (or its delegate) and the relevant council is to be carried out to determine the objectives and approaches to the archival recording. The archival recording of heritage conservation areas is to include, but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	N	Prior to construction	N	N/A	N/A	N/A	Not yet complete	Compliant	CDS-JV	This requirement, including the necessary consultation, is addressed in the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). Archival recording is being undertaken by the heritage specialists, Extent Heritage, using a process developed in consultation with the NSW Heritage Council, National Trust and the relevant councils. The requirement for Heritage Conservation Area Archival Recording and Research Reports is also addressed in the Construction Heritage Sub-Plan and these will be submitted to the relevant agencies, libraries and historical societies at the completion of the archival recording. Currently the only heritage conservation area that requires archival recording is Goodsell Estate Heritage Conservation Area in St Peters due to impacts from the Local Roads Works (ie Stage 2(e)). Consultation has commenced with the National Trust. Marrickville Council and OEH will be consulted during August 2016. Whilst no impact is anticipated, archival recording has also been undertaken in the Kingsgrove and Bexley areas as a conservative measure.
D38	(a)	comprehensive photographic recording of buildings, structures, open spaces, public realm, architecture, urban design, landscaping and streetscapes;																		
D38	(b)	surveying and mapping of land use arrangements, street patterns and layouts, subdivision layouts, landscape design and street tree plantings; and any other feasible recording requested and agreed to following consultation with the aforementioned stakeholders.																		

Pre-Construction Compliance Report



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D38		The archival recording of heritage conservation areas must be undertaken by a qualified and experienced heritage consultant, and should be undertaken in a manner generally reflective of the <i>How to Prepare Archival Records of Heritage Items (2003)</i> guidelines issued by the Heritage Council of NSW. Within 12 months of completing the archival recording, or as otherwise agreed by the Secretary, the Proponent must submit a Heritage Conservation Area Archival Recording and Research Report, for each relevant heritage conservation area, containing the archival and photographic recordings, mapping and historical research, to the Department, the Heritage Council of NSW, the local library, the local Historical Society in the respective local government area(s).																		
D39		Prior to excavation works adjacent to the Alexandra Canal and St Peters Interchange the Proponent must engage a suitably qualified archaeologist whose experience complies with the Heritage Council of NSW's <i>Criteria for Assessment of Excavation Directors (July, 2011)</i> (referred to as the Excavation Director) to oversee and advise on matters associated with historic archaeology and to prepare an Archaeological Research Design and Excavation Methodology . The Archaeological Research Design and Excavation Methodology is to be submitted to the Heritage Council of NSW for review and comment prior to finalisation. The Archaeological Research Design and Excavation Methodology must:	N	Y	Y	N	N	N	Y	Y	Y	Prior to excavation	N	10/02/2016	25/07/2016	N/A	Not yet complete	Compliant	CDS-JV	CDS-JV have engaged an Excavation Director, [REDACTED], of Extent Heritage. [REDACTED] meets the relevant NSW criteria and is available to oversee and advise on historic archaeology. The role of the Excavation Director is described in the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006) and the Archaeological Research Design and Excavation Methodology (HARD), which has been prepared for the project by [REDACTED]. The HARD has been reviewed by the Heritage Council of NSW and relevant Councils. The HARD is included as Appendix D to the Construction Heritage Sub-Plan.
D39	(a)	be consistent with the NSW Heritage Council's Archaeological Assessments Guideline (1996);																		
D39	(b)	provide for the detailed analysis of any heritage items discovered during the investigations;																		
D39	(c)	include management options for discovered heritage items (including options for relocation and display); and																		
D39	(d)	if the findings of the investigations are significant, provide for the preparation and implementation of a heritage interpretation plan.																		
D39		Where excavation works are required in the vicinity of potential archaeological sites, the Excavation Director must be present to advise on archaeological issues and oversee excavation works. The Excavation Director must be given the authority to																		



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		advise on the duration and extent of oversight required during excavation.																		
D40		In the event that archaeological relics are discovered during construction, all work must cease in the affected area and the Excavation Director must be notified and attend the site to assess the finds, identify their significance level and provide mitigation advice according to the significance level and the impact proposed. In the event that the relics are identified as being of State or local significance, the Heritage Council of NSW must be notified in writing in accordance with section 146 of the Heritage Act 1977. An Archaeological Relics Management Plan specific to the relics or site encountered is to be prepared in consultation with the Heritage Council of NSW which is to outline all feasible and reasonable measures to be implemented to avoid and/or minimise harm to the State or locally significant heritage items. Works within the vicinity of the find must not recommence without the approval of a suitably qualified and experienced archaeologist in consultation with the Heritage Council of NSW. The Proponent must notify the Secretary in writing of any such encounter of an archaeological relic triggering this condition and must also notify the Secretary of the outcome of consultation with the Heritage Council of NSW.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Where unidentified archaeological relics are discovered, CDS-JV would implement the Unexpected Heritage Finds Procedure, Annexure A to the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). The procedure outlines the hold points, investigation, assessment, notification and reporting requirements associated with an archaeological discovery. The HARD (Appendix D of the Construction Heritage Sub-Plan) provides further details about the processes and assessment that would be required where the discovery is determined to be significant. No archaeological relics have been discovered at the date of writing for the project.
D41		In the event that archaeological relics are discovered, within 12 months of completing all archaeological investigations, unless otherwise agreed by the Secretary, the Proponent must prepare an Excavation Report containing the findings of any excavations, including artefact analysis and the identification of a final repository of any finds. The Excavation Report must be submitted to the Department, the Heritage Council of NSW, and the local library and the local Historical Society in the relevant local government area(s). A copy of the Excavation Report must be retained with the relics at all times.	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	The requirement for an Excavation Report in accordance with this condition is addressed in the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). No archaeological relics have been discovered at the date of writing for the project.	

Pre-Construction Compliance Report



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D42		The Proponent must undertake photographic and drawn archival recordings of the geological features of the St Peters Brickpit Geological Site prior to undertaking any works that would result in the features being obscured. The recordings should be included in the Heritage Interpretation Plan required by condition B40.	N	Y	N	N	N	N	Y	N	Y	Prior to construction	N	N/A	N/A	N/A	20/04/2016	Compliant	CDS-JV	Archival recording of the St Peters Brickpit Geological Site has been completed in April 2016 using 3-dimensional modelling. The archival recordings will be included in the Heritage Interpretation Plan. This requirement is addressed in the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006).	
D43		The Proponent must take all reasonable steps so as not to harm, modify or otherwise impact any Aboriginal heritage item associated with the SSI.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	The approved project EIS identified the known areas / items of Aboriginal Heritage significance within and surrounding the project footprint. No impacts to known Aboriginal heritage (inside or outside the project footprint) are expected to occur during the construction phase, with the implementation of management measures provided in the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). Should any activities be required beyond the approved project boundary, they would be assessed in regards to potential impact on Aboriginal heritage. The assessment of changes (that may extend beyond the approved footprint) is summarised in the CEMP (M5N-EN-PLN-PWD-0001). Measures to minimise impact to known and potential unknown Aboriginal heritage items are described in the CHSP and in the Unexpected Heritage Finds Procedure (Appendix A to the CHSP). No impacts to Aboriginal heritage items have occurred during the reporting period.	
D44		Where previously unidentified Aboriginal objects are discovered during construction of the SSI, all work should stop in the affected area and a suitably qualified and experienced Aboriginal heritage expert should be contacted to provide specialist heritage advice. The measures to consider and manage this process must be specified in the Construction Heritage Management Plan required by condition D68(c) and, where relevant, include registration in the OEH's Aboriginal Heritage Information Management System (AHIMS) register.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Impacts to Aboriginal heritage (inside or outside the SSI footprint) will be avoided by the project. Where previously unidentified Aboriginal objects are discovered, they will be managed in accordance with the Unexpected Heritage Finds Procedure (Appendix A to the Construction Heritage Sub-Plan). This requirement is addressed in the safeguards listed in the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). No Aboriginal objects have been discovered to date in the reporting period.	



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D45		The Proponent must undertake a program of geotechnical coring at each pile location adjacent to Alexandra Canal to obtain sediment samples to a depth of seven metres. The sediment cores are to be examined by a suitably qualified and experienced archaeologist engaged by the Proponent to determine the potential for Aboriginal archaeological artefacts. The assessment by the archaeologist must be carried out prior to the commencement of excavation and/or piling works adjacent to the Canal. In the event that artefacts are uncovered, the Proponent must implement the procedures for unexpected finds required by condition D68(c)(i) and update the Construction Heritage Management Plan required by condition D68(c).	N	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	This requirement is addressed by the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). The sediment cores will be assessed by the project archaeologist, of Extent Heritage, prior to excavation or piling works adjacent to Alexandra Canal (ie prior to Stage 2(e)). If artefacts are discovered in the cores, the Unexpected Heritage Finds Procedure will be implemented.
D46		Unless otherwise approved by the Secretary, heavy vehicle movements associated with the construction of the SSI are not permitted to use Wirega Avenue and Garema Circuit at Kingsgrove, or any other local road not identified for use in the documents referred to in conditions A2(b) and A2(c), unless approved by the Secretary. When seeking the Secretary's approval for use of such local roads, justification must be provided as to why use of the local road(s) is the only feasible and reasonable route along with details on how impacts on surrounding sensitive receivers will be managed.	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	Heavy vehicles associated with construction of the project will not use Wirega Ave, Garema Cct or other unapproved road during the construction phase unless otherwise approved by the Secretary. This is described in Section 5.6 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) and the Construction Traffic and Access Management Plan (CTAMP; M5N-ES-PLN-PWD-0004). Where use of an unapproved local road is identified to be required for the project, a report outlining the justification for the proposed use will be submitted to DP&E. DP&E provided written advice (email dated 22/08/2016) that consultation with affected property owners and consideration of issues raised must be included for applications under this condition. An application under this condition was submitted to DP&E on 1/09/2016 in regards to use of Wirega Avenue and Garema Circuit in Kingsgrove. DP&E provided comments regarding this submission on 9/09/2016. These comments will be addressed and a revised report will be provided to DP&E.
D47		Construction vehicles (including staff vehicles) associated with the SSI must be managed so that:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	The management of construction vehicles is addressed by the Construction Traffic and Access Management Plan (M5N-ES-PLN-PWD-0004) and the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) for construction traffic noise management measures. Project inductions and the Drivers Code of Conduct (Section 6.13 of the CTAMP) for the project, also provide additional measures to address these requirements.
D47	(a)	parking or queuing on public roads is minimised;																		
D47	(b)	idling and queuing in local residential streets is minimised, where practicable;																		
D47	(c)	heavy vehicles adhere to the nominated haulage routes identified in the Construction Traffic and Access Management Plan required under condition D68(a); and																		
D47	(d)	access and egress from construction compounds is undertaken in a safe and lawful manner, with particular regard be given to this compounds located in the vicinity of schools and the potential implementation of traffic management or signalisation, in consultation with the relevant council.																		

Pre-Construction Compliance Report



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D48		Functional and safe pedestrian and cyclist access through and around worksites must be maintained during construction. This includes the consideration of 'safer by design' principles including the provision of appropriate sight lines and lighting. In circumstances where pedestrian and cyclist access is restricted due to construction activities, a satisfactory alternate route must be provided and signposted, including provision of footpaths where pedestrian access is reliant on grassed verges.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Maintenance of pedestrian and cyclist access, including the provision of alternate routes, is addressed by Sections 6.10 and 6.11 of the Construction Traffic and Access Management Plan (M5N-ES-PLN-PWD-0004).
D49		Access to all properties must be maintained during construction, where feasible and reasonable, unless otherwise agreed by the relevant property owner or occupier. Any access physically affected by the SSI must be reinstated to at least an equivalent standard, unless agreed with by the property owner.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Access to all properties will be maintained during the project where feasible and reasonable, unless otherwise agreed by the relevant property owner or occupier. Any access physically affected by the SSI will be reinstated to at least an equivalent standard, unless agreed by the property owner. Changes to access as a result of the project are addressed in Section 6.17 of the Construction Traffic and Access Management Plan (M5N-ES-PLN-PWD-0004). Traffic control plans and staging diagrams will provide details for any access arrangement during construction. Notification to property owners/occupiers will be undertaken prior to changed access arrangements in accordance with the Community Communications Strategy (M5N-CS-PLN-PWD-0008).
D50		The Proponent must prepare and implement a Construction Parking and Access Strategy to further identify and effectively mitigate impacts resulting from on-and off-street parking changes during construction of the SSI. The Strategy must include, but not necessarily be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y					Compliant	CDS-JV	The Construction Parking and Access Strategy (M5N-AJV-TER-100-110-TM-1609) is currently being finalised and consulted with affected stakeholders. The Strategy will be submitted for approval of the Secretary prior to the construction stages that will impact on- and off-street parking (ie Stage 2(d) and 2(e)).
D50	(a)	confirmation and timing of the removal of on- and off-street parking associated with construction of the project;																		
D50	(b)	comprehensive parking surveys of all parking spaces to be removed to determine current demand during peak, off-peak, school drop off and pickup, and weekend periods;																		
D50	(c)	consultation with affected stakeholders utilising existing on- and off-street parking stock which will be impacted as a result of construction;																		
D50	(d)	assessment of the impacts of changes to on- and off-street parking stock taking into consideration outcomes of consultation with affected stakeholders																		
D50	(e)	identification of 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 councils to																		



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D50	(f)	introduce parking restrictions adjacent to work sites and compounds;																		
D50	(g)	mechanisms for monitoring over appropriate intervals to determine the effectiveness of implemented mitigation measures;																		
D50	(h)	provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and																		
D50		provision of reporting of monitoring results to the Secretary and relevant councils at appropriate intervals. The Construction Parking and Access Strategy must be submitted to the Secretary for approval prior to the commencement of construction.																		
D51		Prior to commencement of any tunnelling works, the Proponent must prepare and implement a Spoil Management Plan for the SSI. The Spoil Management Plan is to be developed, in consultation the relevant council(s), for the approval of the Secretary. The Spoil Management Plan must incorporate detailed information on the handling and transport of spoil generated during construction of the SSI, and provide information regarding each of the broad parameters specified in the documents listed in conditions A2(b) and A2(c). The Spoil Management Plan is to be prepared separate to, but consistent with, the Construction Traffic and Access Management Plan required under condition D68(a).	N	N	N	N	N	N	N	N	Y	Prior to tunnelling	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	CDS-JV	<p>A draft Spoil Management Plan (M5N-CN-PLN-PWD-0002) has been developed and was provided to the following councils for consultation on 25/5/16:</p> <ul style="list-style-type: none"> - City of Sydney - Georges River - Inner West - City of Botany Bay - Rockdale City Council - Canterbury-Bankstown <p>The Spoil Management Plan will be updated to address feedback received during consultation and will be submitted to DPE for approval prior to the commencement of tunnelling.</p>
D52		The clearing of native vegetation must be minimised with the objective of reducing impacts to any threatened species, populations and ecological communities to the greatest extent practicable. Impacted vegetation must be rehabilitated with endemic species (in the first instance) and locally native species to the greatest extent practicable.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	<p>The clearing of native vegetation will be minimised through design and construction where practicable. The avoidance of vegetation during the establishment of ancillary compounds is addressed in the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) and the Tree Reports required under CoA B63. Site Environmental Plans will identify areas of sensitive vegetation and habitat to be retained during construction. Additional opportunities to avoid vegetation clearance would be investigated throughout construction. Rehabilitation requirements are identified in the Flora and Fauna Sub-Plan (M5N-ES-PLN-PWD-0007) and will be detailed in the Urban Design and Landscape Plan, once finalised.</p>

Pre-Construction Compliance Report



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D53		Prior to removing/clearing any vegetation, pre-clearing surveys and inspections for threatened species, populations and ecological communities must be undertaken to confirm the on-site location of those entities. The surveys and inspections, and any subsequent relocation of species and associated management/offset measures, must be undertaken under the guidance of a suitably qualified and experienced ecologist. Methodologies must be incorporated into the Construction Flora and Fauna Management Plan required under condition D68(d) and Ancillary Facilities Management Plan required under condition D57. The agreement of OEH or DPI, whichever is the relevant agency, is required for any proposed amendments to the location or reclassification of threatened species, populations and ecological communities.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Pre-clearing surveys were undertaken between 10-13 May 2016 for all areas containing vegetation to be removed for the project to determine the presence of actual or potential threatened species, populations, ecological communities or other significant habitat. The results of these surveys are included in Appendix F of the Construction Flora and Fauna Sub-Plan (CFFSP; M5N-ES-PLN-PWD-0007). All clearing would be conducted in accordance with the CDS-JV Manage Flora and Fauna Procedure (Appendix B to the CFFSP), which requires a site-specific permit to clear and a pre-clearance inspection. Consultation requirements with OEH/DPI are also set out in the CFFSP and associated procedures.	
D54	(a)	The Proponent must prepare and implement a Construction Contamination Management Plan to manage potential contamination impacts during construction of the SSI (excluding contamination covered by the Landfill Closure Management Plan for the Alexandria Landfill site). The Construction Contamination Management Plan must be developed in consultation with the EPA and relevant councils, and include, but not be limited to: 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;	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	2/06/2016	N/A	N/A	2/06/2016	Compliant	CDS-JV	The Construction Contaminated Land Management Plan was provided to EPA, Sydney Water and the following councils on 17/05/2016 for consultation: - City of Sydney - Georges River - Inner West - City of Botany Bay - City of Rockdale - Canterbury-Bankstown The Construction Contaminated Land Management Plan was submitted to DP&E on 2 June 2016. DP&E provided comments on the Plan on 27/07/2016. These comments are being reviewed and an updated Plan will be provided to DP&E once finalised.		
D54	(b)	details of management measures to minimise bed sediment mobilisation in Alexandra Canal. All measures must comply with the actions required of Remediation Order H01833, 23004/ Area #3151 issued by the EPA on 10 May 2004;																					
D54	(c)	measures for the handling, treatment and management of hazardous and contaminated soils, materials and groundwater including measures to manage and/or minimise public health and safety concerns with regards to exposure to contamination;																					
D54	(d)	an Unexpected Finds Procedure detailing procedures and management measures to be implemented in the event that contaminated material is uncovered in any area not identified in																					

Pre-Construction Compliance Report



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D54	(e)	the documents referred to in conditions A2(b), A2(c) and A2(e); 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; and																		
D54	(f)	mechanisms for the monitoring, review and amendment of this Construction Contamination Management Plan. The Construction Contamination Management Plan must be submitted to the Secretary prior to undertaking any works which may result in the disturbance of contaminated soil, land or materials.																		
D54		Nothing in this condition prevents the Proponent from preparing separate Construction Contamination Management Plans for specific areas of work, rather than a plan which addresses the entire SSI																		
D55	(a)	Dangerous goods, as defined by the Australian Dangerous Goods Code, must be stored and handled strictly in accordance with:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	
D55	(b)	all relevant Australian Standards; for liquids, a minimum bund volume requirement of 110% of the volume of the largest single stored volume, within the bund; and																		
D55	(c)	the Environment Protection Manual for Authorised Officers: Bunding and Spill Management, technical bulletin (EPA, 1997).																		
D55		In the event of an inconsistency between the requirements listed from (a) to (c) above, the most stringent requirement must prevail to the extent of the inconsistency.																		



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D56		The Proponent must provide boundary screening within all construction sites that adjoin or are adjacent to residential and/or commercial properties, consistent with the surrounding context, in consultation with affected property owners.	Y	Y	N	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Boundary screening will be installed within ancillary facilities adjoining or adjacent to residential and/or commercial properties. This is addressed in Section 6.13 of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026). Temporary acoustic barriers may be incorporated into the boundary screening as required. Temporary acoustic barriers are described in the Temporary Noise Barrier Strategies as described under CoA D20. The Community Relations team are undertaking consultation with residential and commercial properties that adjoin or are adjacent to ancillary facilities, prior to the establishment of ancillary facilities. Consultation includes one-on-one meetings with directly affected property owners/occupiers as well as door knocking, letter box drops and community updates for other residents likely to be impacted as applicable. Consultation has been completed with properties adjoining the Kingsgrove construction compounds and this has been considered in the Kingsgrove Temporary Noise Barrier Strategy, approved by DP&E on 23/06/2016. Consultation is ongoing for the other construction sites. Comments/feedback regarding boundary screening and noise walls is being considered by CDS-JV. The final site design plans will detail the type and height of boundary screens and acoustic barriers for each location.
D57		Prior to the establishment of the ancillary facilities described in the documents listed in conditions A2(b) and A2(c), the Proponent must prepare and implement an Ancillary Facilities Management Plan which outlines the environmental management practices and procedures for the establishment and operation of the ancillary facilities. The Ancillary Facilities Management Plan must be prepared in consultation with the EPA and the relevant council and submitted to the Secretary for approval. The Ancillary Facilities Management Plan must detail the management of these ancillary facilities, and include, but not be limited to:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Yes	3/05/2016	10/06/2016	AFMP: 9/06/2016 Addendum 1: 18/07/2016	18/07/2016	Compliant	CDS-JV	The Ancillary Facilities Management Plan (AFMP; M5N-ES-PLN-PWD-0026) was provided to the EPA and the following councils for consultation on 1/04/16: - City of Sydney - Hurstville (Georges River Council) - Marrickville (Inner West Council) - City of Botany Bay - Rockdale - Canterbury (Canterbury-Bankstown Council) The AFMP was submitted to DP&E on 3/05/16 and approved on 23/06/2016. The AFMP describes all construction compounds and other ancillary facilities, as listed in the documents in A2(b), A2(c) and A2(d) of the planning approval. An addendum to the AFMP (Addendum #1) was prepared to address the installation of HV power to four construction compounds and was provided to the following councils for consultation on 6/05/16: - Hurstville (Georges River Council) - Marrickville (Inner West Council) - Rockdale - Canterbury (Canterbury-Bankstown Council) The Addendum #1 to the AFMP was submitted to DP&E on 20/05/16 and approved on 18/07/16.
D57	(a)	a description of each ancillary facility (including a site layout plan), its components and details of the existing environment on and in the vicinity of the site;																		
D57	(b)	a description of the works proposed to be undertaken during site establishment;																		
D57	(c)	details of the activities to be carried out at each facility, including the hours of operation, staging of operation and predicted date of commissioning;																		
D57	(d)	a description of the plant, equipment and materials to be used and/or stored on each site, including dangerous and hazardous goods;																		
D57	(e)	a summary of the potential environmental impacts associated with the establishment and operation of the facility;																		

Pre-Construction Compliance Report



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D57	(f)	details of the mitigation, monitoring and management procedures specific to each facility that would be implemented to minimise environmental and amenity impacts or, where this is not possible, feasible and reasonable measures to offset these impacts;																
D57	(g)	measures to minimise and manage flora and fauna impacts including-																
D57	(i)	clearing procedures incorporating pre-clearing surveys and inspections and measures for minimising the extent of clearing,																
D57	(ii)	measures to protect the remaining portion of Cooks River/Castlereagh Ironbark Forest and ensure that it is not impacted by the establishment and operation of construction compounds,																
D57	(iii)	procedures for removal and relocation of fauna during clearing, and construction worker induction and education;																
D57	(h)	a description of how the management and mitigation measures set out in the documents referred to in conditions A2(b) and A2(c) will be implemented on each site, and if not, justification for any departures from those management and mitigation measures;																
D57	(i)	details of the community consultation to be undertaken with affected and adjoining landowners and sensitive receivers																
D57	(j)	details on the height and materials of noise barriers/hoardings at each facility;																
D57	(k)	identification of the timing for the completion of site activities at each facility and how each site will be decommissioned (including any necessary rehabilitation); and																
D57	(l)	mechanisms for the monitoring, review and amendment of the Ancillary Facilities Management Plan.																
D57		In considering the approval of the Ancillary Facilities Management Plan, the Secretary will take into account the Proponent's response to public authority and relevant council comments on the plan.																
D57		The Proponent must update the Ancillary Facilities Management Plan to incorporate the site establishment and operation practices required for any additional ancillary facilities approved by the Secretary under condition 063.																
D57		No construction-related works or activities are to be undertaken on the ancillary facility sites prior to approval																

Pre-Construction Compliance Report



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D57		of the Construction Environment Management Plan required under condition D67.																	
D57	(a)	For the purposes of this condition, site establishment works does not include: piling (except for piling required for the erection of noise barriers around construction compounds); or																	
D57	(b)	the erection of acoustic sheds at ancillary facilities; or																	
D57	(c)	excavation activities (excluding excavation associated with trenching for services, site levelling for the erection of construction site offices and parking and storage and maintenance sheds; or excavation of sediment ponds for construction sediment and erosion control)																	
D57		Such works are considered to be construction.																	
D57		Nothing in this condition exempts the Proponent from fulfilling the requirements of any conditions in this approval which require certain plans, programs or actions to be undertaken prior to site establishment works or operation of an ancillary facility proceeding.																	
D58		The Ancillary Facilities Management Plan must include an Arncliffe Construction Compound Sub-plan , prepared in consultation with OEH, which includes the following:	N	Y	N	N	Y	N	N	Y	Establishment Construction	Y	20/05/2016	3/06/2016	9/06/2016	9/06/2016	Compliant	CDS-JV	The Arncliffe Construction Compound Sub-plan (M5N-ES-PLN-ARN-0001) was provided to OEH for consultation on 3/05/16. The sub-plan was submitted to DP&E for approval on 20 May 2016 and was approved on 9/06/2016.
D58	(a)	the management measures as specified in rows 4-12 of Table 1 of the Green and Golden Bell Frog Plan of Management presented in Appendix K of Appendix S, Volume 2H of the document referred to in condition A2(b) and any additional measures included in the updated management plan required by condition B14;																	
D58	(b)	procedures for decommissioning of the surface water bodies within the construction compound; and																	
D58	(c)	a stop-work procedure in the event that Green and Golden Bell Frogs are identified on site.																	
D58	(a)	The management measures should specifically describe:																	
D58	(a)	what information would be included in the site inductions, who would be inducted and the timing and responsibilities for induction;																	
D58	(b)	the location and type of erosion and sediment controls to be implemented;																	
D58	(c)	the methods for dust suppression;																	
D58	(d)	acid sulphate soil management procedures; and																	



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D58	(e)	hygiene protocol to minimise the potential for the introduction and spread of Chytrid Fungus by plant, equipment, construction vehicles, construction workers and materials. The Proponent is not required to consult with the relevant council on the Arncliffe Construction Compound Sub-plan.																		
D59	(a)	<p>Prior to establishing the Arncliffe construction compound (C7), the Proponent must implement the following management measures as specified in the first three rows of Table 1 of the Green and Golden Bell Frog Plan of Management presented in Appendix K of Appendix S, Volume 2H of the document referred to in condition A2(b):</p> <p>define the construction clearing area;</p> <p>establish a frog exclusion zone; and</p> <p>undertake pre-clearance survey and salvage activities (i.e. frog collection).</p> <p>The Proponent must also establish a procedure for the collection of Green and Golden Bell Frog tadpoles from the existing surface waterbodies at the Kogarah Golf Course that will be impacted by the Arncliffe construction compound, and implement the procedure if tadpoles are present prior to decommissioning of the waterbodies.</p> <p>Any salvaged frogs and tadpoles must be either relocated to the RTA ponds or an appropriate holding facility which is staffed by appropriately trained and experienced frog specialists.</p> <p>No site establishment or construction-related activities or works are permitted at the proposed Arncliffe construction compound site until such time that the above management measures have been implemented and written notice to this effect has been provided to the Secretary by a suitably qualified and experienced frog specialist.</p> <p>The management measures specified in (a) to (c) and above and tadpole collection may be undertaken prior to the Proponent implementing any actions that are required by the conditions set out in Parts B, C, D and E of this approval.</p>	N	Y	N	N	N	N	N	N	N	Prior to establishment	N	N/A	N/A	N/A	27/07/2016	Compliant	CDS-JV	<p>This pre-establishment requirement is addressed in the approved Arncliffe Construction Compound Sub-plan (M5N-ES-PLN-ARN-001), which includes the relevant procedures and other management measures to manage frog and tadpole salvage and relocation. The pre-establishment activities have been undertaken and the pre-clearance surveys were undertaken on 23-26th July 2016. Written advice from the RMS herpetologist was provided on 26/07/2016 and this advice was submitted to the Secretary DP&E on 27/07/2016. Decommissioning of ponds and establishment activities have commenced at the site.</p>
D59	(b)																			
D59	(c)																			
D59																				
D59																				
D59																				
D59																				
D60		Site establishment works at ancillary facilities must be undertaken in accordance with the construction hours specified in conditions D12 and D14. Notwithstanding, the following activities can be undertaken outside of	Y	Y	Y	N	N	N	N	N	N	Establishment	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement is addressed by the construction hours and related management measures specified in Section 5.1.1 and Appendix B of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026).



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D60	(a)	the hours specified in conditions D12 and D14.																		
D60	(b)	the delivery of materials/equipment/plant where it is required by the police or other authorities for safety reasons;																		
D60	(c)	works required in an emergency to avoid the loss of lives, property and/or prevent environmental harm; utility connections where the utility provider requires the connections be performed outside of the specified hours; or works which have the potential to impact on road/traffic safety and must be carried out as a result of RMS Traffic Management Centre requirements																		
D61		The Proponent must comply with the requirements of conditions D16, D18, D22 and D24, when establishing ancillary facilities.	Y	Y	Y	N	N	N	N	N	N	Establishment	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	The nominated requirements are addressed through the control measures specified in Appendix B of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026).
D62		Other than ancillary facilities described in the documents listed in conditions A2(b) and A2(c), or those ancillary facilities approved by the Secretary under condition D63, or allowed under condition D64, the location of ancillary facilities must comply with the following locational criteria:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	N/A	Compliant	CDS-JV	An assessment of each ancillary facility against the locational criteria is provided in Section 5.2 of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026), and in the case of the HV Power works sites, in the AFMP Addendum No. 1 (Appendix J to the AFMP). Where additional ancillary facilities are proposed they will be assessed against the criteria as described in the AFMP.
D62	(a)	be located more than 50 metres from a waterway;																		
D62	(b)	be located within or adjacent to land where the SSI is being carried out;																		
D62	(c)	have ready access to the road network;																		
D62	(d)	be located to minimise the need for heavy vehicles to travel on local streets and/or through residential areas;																		
D62	(e)	be sited on relatively level land;																		
D62	(f)	be separated from nearest residences by at least 200 metres (or at least 300 metres for a temporary batching plant);																		
D62	(g)	not require vegetation clearing beyond that already required by the SSI;																		
D62	(h)	not impact on heritage items (including areas of archaeological sensitivity) beyond those already impacted by the SSI;																		
D62	(i)	not unreasonably affect the land use of adjacent properties;																		
D62	(j)	be above the 20 ARI flood level unless a contingency plan to manage flooding is prepared and implemented; and																		
D62	(k)	provide sufficient area for the storage of raw materials to minimise, to the greatest extent practical, the number of deliveries required outside standard construction hours.																		



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D63		Prior to establishment of any ancillary facility not described in the documents listed in conditions A2 (b) and A2(c) and which does not meet the locational criteria in condition D52, the Proponent must prepare and implement a Site-Specific Ancillary Facilities Management Plan. The Site-Specific Ancillary Facilities Management Plan must be prepared for the approval of the Secretary, and include:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	Y	N/A	N/A	N/A	N/A	Not yet triggered	CDS-JV	The assessment and approval requirements for additional ancillary facilities are described in Section 4.3 of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026). Where the ancillary facility does not comply with the locational criteria, or does not comprise a minor ancillary facility (condition D64), a site-specific ancillary facilities management plan will be submitted for approval. No applications for additional ancillary facilities (ie not listed in the documents in conditions A2(b) - A2(d)) have been submitted in the reporting period.		
D63	(a)	a detailed description of the ancillary facility, including proposed use and access arrangements;																				
D63	(b)	a review of the environmental and social impacts of the ancillary facility, including an analysis of compliance with the locational criteria specified in condition 0;																				
D63	(c)	measures to avoid, mitigate and manage environmental and social impacts associated with the ancillary facility; and																				
D63	(d)	demonstration that, with the measures proposed in accordance with (c), the impacts of the ancillary site are consistent with –																				
D63		(i) the overall project impacts described in documents listed in conditions A2(b) and A2(c) , and all relevant conditions of this approval.																				
D64		The Secretary's approval is not required for minor ancillary facilities (e.g. lunch sheds, office sheds, and portable toilet facilities, etc.) that do not comply with the criteria set out in condition D62 of this approval and which:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Facilities that are considered to be minor under this condition will be assessed and approved by the Environmental Representative. The process to determine the assessment and approval requirements for new/amended ancillary facilities is described in Section 4.2.2 of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026). One additional minor ancillary facility has been identified during the reporting period. The site is required for temporary storage purposes associated with installation of HV power activities and is within the construction footprint. The ER is currently assessing this additional proposed facility.		
D64	(a)	are located within an active construction zone within the approved SSI footprint; and																				
D64	(b)	have been assessed by the Environmental Representative to have –																				
D64	(b)	(i) minimal amenity impacts to surrounding residences, with consideration to matters such as noise and vibration impacts, traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and																				
D64	(b)	minimal environmental impact in respect to waste management, and no impacts on flora and fauna, soil and water, and heritage beyond those approved for the SSI; and																				
D64	(c)	have environmental and amenity impacts that can be managed through the implementation of environmental measures detailed in the Construction Environment Management Plan required under condition D66.																				

Pre-Construction Compliance Report



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D65		All ancillary facilities and supporting infrastructure must be rehabilitated to at least their pre-construction condition or better, unless otherwise agreed by the landowner where relevant. Where the rehabilitated site is residual land then condition B67 applies.	N	N	N	Y	Y	Y	Y	Y	Y	Construction Post-construction	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	Any ancillary facilities or other sites disturbed by the project will be rehabilitated in accordance with this requirement. Rehabilitation requirements are addressed by Section 7.19 of the approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026), and will be described in detail in the Urban Design and Landscape Plan, and the Residual Land Management Plan, once finalised.		
D66		The privacy of adjoining residential development is to be considered in the design and establishment of ancillary facilities. Where an ancillary facility overlooks residential property, privacy measures will be provided in consultation with the affected property owner.	Y	Y	N	Y	Y	Y	Y	Y	Y	Establishment Construction	N	N/A	N/A	N/A	Ongoing	Compliant	CDS-JV	Privacy of adjoining development has been considered in the design of the ancillary facilities and consultation with directly affected property owners/occupiers will be undertaken in accordance with condition D56. Measures will be implemented during establishment to maximise privacy, as described in Section 7.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026).		
D67		Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a Construction Environmental Management Plan (CEMP) for the SSI. The CEMP is to be prepared in consultation with the, OEH, DPI (Water) and the relevant council(s). The CEMP must outline the environmental management practices and procedures that are to be followed during construction. The CEMP is to be prepared in accordance with the <i>Guideline for the Preparation of Environmental Management Plans (Department of Infrastructure, Planning and Natural Resources, 2004)</i> . The CEMP must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	31/05/2016	7/07/2016	Not yet approved	Not yet complete	Compliant	CDS-JV	The Project Construction Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-0001) was provided to OEH, DPI Water and the following councils for consultation on 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner West Council) - City of Botany Bay - Rockdale - Canterbury The CEMP was submitted to DP&E for approval on 31 May 2016. The CEMP has been subsequently revised and resubmitted to address DP&E comments. The most recent revision of the CEMP was provided on 7/7/16.		
D67	(a)	a description of activities to be undertaken during construction of the SSI (including staging and scheduling);																				
D67	(b)	statutory and other obligations that the Proponent is required to fulfil during construction, including approvals, consultations and agreements required from authorities and other stakeholders under key legislation and policies;																				
D67	(c)	a description of the roles and responsibilities for relevant employees involved in the construction of the SSI, including relevant training and induction provisions for ensuring that employees, including contractors and sub-contractors, are aware of their environmental and compliance obligations under these conditions of approval;																				
D67	(d)	an environmental risk analysis to identify the key environmental performance issues associated with the construction phase; and																				

Pre-Construction Compliance Report



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D67	(e)	details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts (including any impacts arising from the staging of the construction of the SSI). In particular, the following environmental performance issues must be addressed in the CEMP –															
D67	(e)	i. measures to monitor and manage dust emissions including dust from stockpiles, blasting, traffic on unsealed public roads and materials tracking from construction sites onto public roads,															
D67	(e)	ii. measures for the handling, treatment and management of hazardous and contaminated materials (including asbestos),															
D67	(e)	iii. measures to monitor and manage waste generated during construction including but not limited to general procedures for waste classification, handling, reuse, and disposal, use of secondary waste material in construction wherever feasible and reasonable, procedures or dealing with green waste including timber and mulch from clearing activities. and measures for reducing demand on water resources (including potential for reuse of treated water from sediment control basins);															
D67	(e)	iv. measures to monitor and manage hazard and risks,															
D67	(e)	v. measures to monitor and rectify any impacts to third party property and infrastructure, including details of the process for rectification or compensation of affected landowners, and timeframes for rectification works or compensation processes, and the sub-plans identified in condition D68															
D67	(e)	The CEMP must include procedures for its periodic review and update (including the sub-plans required under condition 068), as necessary (including where minor changes can be approved by the Environmental Representative). Nothing in this condition prevents the Proponent from preparing a Stockpile Management Protocol as part of the CEMP.															
D67	(e)	The CEMP must be submitted for the approval of the Secretary no later than one month prior to the commencement of construction, or as otherwise agreed by the Secretary. The CEMP may be prepared in stages;															

Pre-Construction Compliance Report



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D67		however, construction works must not commence until written approval of the relevant stage has been received from the Secretary. The approval of a CEMP does not relieve the Proponent of any requirement associated with this SSI approval. If there is an inconsistency with an approved CEMP and the conditions of this SSI approval, the requirements of this SSI approval will prevail.																		
D68		As part of the CEMP for the SSI, the Proponent must prepare and implement:																		
D68	(a)	a Construction Traffic and Access Management Plan to ensure traffic and access controls are implemented to avoid or minimise impacts on traffic, pedestrian and cyclist access, and the amenity of the surrounding environment. The Construction Traffic and Access Management Plan must be developed in consultation with the relevant council(s), emergency services, road user groups, and pedestrian and bicycle user groups, and include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	25/05/2016	11/07/2016	27/07/2016	27/07/2016	Compliant	CDS-JV	<p>The Construction Traffic and Access Management Plan (CTAMP; M5N-ES-PLN-PWD-0004) was provided OEH, DPI Water and the following councils for consultation on 3/05/2016:</p> <ul style="list-style-type: none"> - City of Sydney - Hurstville - Marrickville (now Inner West Council) - City of Botany Bay - Rockdale - Canterbury <p>The CTAMP was also provided to the following groups on 3/5/2016:</p> <ul style="list-style-type: none"> NSW Police NSW State Emergency Service NSW Fire and Rescue NSW Ambulance NRMA Motorcycle Council of Australia Transport Workers Union Action for Public Transport (ATP NSW) Inc Pedestrian Council of Australia Bicycle NSW Bike Sydney BikeEast Inc Bike Marrickville Bike South West Bikes Botany Bay Cyclists against WestCONnex <p>The CTAMP has been prepared and submitted to DP&E for approval on 31/05/16. The CTAMP was approved on 27/07/16.</p>
D68	(a)	i. identification of construction traffic routes including any known road closures and consideration of alternate routes and construction traffic volumes (including heavy vehicle/spoil haulage) on these routes;																		
D68	(a)	ii. details of vehicle movements for construction sites and ancillary facilities including parking, dedicated vehicle turning areas, and ingress and egress points;																		
D68	(a)	iii. demonstration that sufficient on-site parking is provided at construction compounds to accommodate all construction staff at any one time,																		



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D68	(a)	iv. discussion of construction impacts that could result in disruption of traffic, public transport, pedestrian and cycle access, access to public land, property access, including details of oversize load movements, and the nature and duration of those impacts;																	
D68	(a)	v. details of management measures to minimise traffic impacts, including temporary road work traffic control measures, onsite vehicle queuing and parking areas and management measures to minimise peak time congestion and measures to ensure safe pedestrian and cycle access;																	
D68	(a)	vi. details of measures to maintain or provide alternative safe and accessible routes for pedestrians throughout the duration of construction;																	
D68	(a)	vii. details of measures to maintain connectivity for cyclists, with particular emphasis on providing adequate access between key existing cycle routes for commuter cyclists;																	
D68	(a)	viii. details of measures to manage traffic movements, parking, loading and unloading at ancillary facilities during out-of-hours work;																	
D68	(a)	ix. details of methods to be used to communicate proposed future traffic changes to affected road users, pedestrians and cyclists, consistent with the Community Communication Strategy required under condition C1;																	
D68	(a)	x. an adaptive response plan which sets out a process for response to any traffic, construction or other incident; and																	
D68	(a)	mechanisms for the monitoring, review and amendment of the Construction Traffic and Access Management Plan.																	
D68	(b)	a Construction Noise and Vibration Management Plan to detail how construction noise and vibration impacts will be minimised and managed. The Plan must be consistent with the guidelines contained in the <i>Interim Construction Noise Guidelines (DECC, 2009)</i> . The Construction Noise and Vibration Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	27/05/2016	7/07/2016	Not yet approved	Not yet complete	Compliant	CDS-JV
D68	(b)	i. identification of the work areas, site compounds and access points;																	
D68	(b)	ii. identification of sensitive receivers and relevant construction noise and vibration goals applicable to the SSI and stipulated in the conditions above;																	



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D68	(b)	iii. details of construction activities and an indicative schedule for construction works, including the identification of key noise and/or vibration generating construction activities (based on representative construction scenarios, including at ancillary facilities) that have the potential to generate noise and/or vibration impacts on surrounding sensitive receivers, particularly residential areas;																
D68	(b)	iv. details of the predicted worst-case noise and vibration levels, including cumulative impacts arising from concurrent construction works and potential for sleep disturbance;																
D68	(b)	v. figures illustrating the predicted safe working distances for vibration intensive activities and equipment;																
D68	(b)	vi. an Out-of-Hours Work Protocol for the assessment, management and approval of works outside of standard construction hours as defined in condition D12 of this approval, for the Secretary's approval. The Out-of-Hours Work Protocol must be prepared in consultation with the EPA and be consistent with the out-of-hours work procedure detailed in the <i>Construction Noise Strategy</i> (Transport Construction Authority, 2011) and-																
D68	(b)	A. provide an assessment of out-of-hours works against the relevant noise and vibration criteria,																
D68	(b)	B. provide detailed mitigation measures for any residual impacts (that is, additional to general mitigation measures), including extent of at-receiver treatments, and																
D68	(b)	C. set out proposed notification arrangements;																
D68	(b)	vii. justification for any construction works proposed to be undertaken within the Alexandria Landfill site outside of the construction hours specified in condition D12 and which do not meet the requirements of either conditions D13 and D15;																
D68	(b)	viii. identification of feasible and reasonable procedures and mitigation measures to ensure relevant vibration and blasting criteria are achieved, including a suitable blast program, applicable buffer distances for vibration intensive works, use of low-vibration generating equipment/vibration dampeners or alternative construction methodology, and pre- and post-construction dilapidation surveys of sensitive structures (including heritage items) where blasting and/or vibration																

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11									
		is likely to result in damage to buildings and structures (including surveys being undertaken immediately following a monitored exceedance of the criteria);																
D68	(b)	ix. details of tunnelling including associated impacts, management and mitigation measures;																
D68	(b)	x. Identification of feasible and reasonable measures proposed to be implemented minimise and manage construction noise and vibration impacts, especially sleep disturbance (including construction traffic noise impacts), including, but not limited to, acoustic enclosures, erection of noise walls (hoardings), at-property architectural treatments, respite periods and the limiting of truck movements during night periods including:																
D68	(b)	(A) consideration of mitigation measures for sensitive receivers adjoining Campbell Road, Campbell Street and Euston Road,																
D68	(b)	(B) the identification of receivers eligible for at-property acoustic treatment for the mitigation and management of operational noise (at-property acoustic treatments are to be installed prior to construction),																
D68	(b)	(C) the identification of receivers eligible for alternative accommodation as determined by the criteria identified within Table 12-49 of the EIS described within condition A2 (inclusive of the consideration and identification of shift workers for alternate accommodation), and																
D68	(b)	(D) the outcomes of community consultation regarding the implementation of any temporary noise barriers developed in accordance with condition D20																
D68	(b)	xi. a description of how the effectiveness of mitigation and management measures would be monitored during the proposed works, clearly indicating how often this monitoring would be conducted, the locations where monitoring would take place, how the results of this monitoring would be recorded and reported, and, if any exceedance is detected, how any noncompliance would be rectified;																

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
D68	(b)	xii. evidence that the EPA has been consulted on the Out-of-Hours Work Protocol and where and how any issues raised by, or requirements of the, EPA have been addressed; and mechanisms for the monitoring, review and amendment of the Construction Noise and Vibration Monitoring Plan.																		
D68	(b)																			
D68	(c)	a Construction Heritage Management Plan to ensure, and provide detail of how, construction impacts on Aboriginal and non-Aboriginal heritage will be appropriately minimised and managed. The Construction Heritage Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	30/05/2016	26/07/2016	Not yet approved	Not yet complete	Compliant	CDS-JV	<p>The Project Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006) was provided to OEHL, DPI Water, the Heritage Council of NSW, the Metropolitan Local Aboriginal Land Council, and the following councils for consultation on 3/05/2016:</p> <ul style="list-style-type: none"> - City of Sydney - Hurstville - Marrickville (now Inner West Council) - City of Botany Bay - Rockdale - Canterbury <p>The CHSP has been prepared and was submitted to DP&E for approval on 30 May 2016. The CHSP was approved by DP&E on 2/08/2016.</p>
D68	(c)	i. in relation to Aboriginal Heritage –																		
D68	(c)	A. procedures for dealing with previously unidentified Aboriginal objects (excluding human remains), including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures, including when works can recommence, by a suitably qualified and experienced archaeologist in consultation with the OEHL, and Aboriginal stakeholders, and assessment of the consistency of any Aboriginal heritage impacts against the approved impacts of the SSI,																		
D68	(c)	B. procedures for dealing with human remains, including cessation of works in the vicinity, notification of, NSW Police Force, OEHL and Aboriginal stakeholders, and commitment to cease recommencing any works in the area unless authorised by OEHL and/or the NSW Police Force,																		
D68	(c)	C. heritage training and induction processes for construction personnel (including procedures for keeping records of inductions and obligations under this approval) including site identification, protection and conservation of Aboriginal cultural heritage, and																		
D68	(c)	D. procedures for ongoing Aboriginal consultation and involvement for the duration of the SSI, in the event that previously unidentified Aboriginal objects are discovered; and																		
D68	(c)	ii. In relation to non-Aboriginal Heritage –																		

Pre-Construction Compliance Report



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D68	(c)	A. identification of heritage items directly and indirectly affected by the SSI,																
D68	(c)	B. details of management measures to be implemented to prevent and minimise impacts on heritage items (including further heritage investigations, archival recordings and/or measures to protect unaffected sites during construction works in the vicinity),																
D68	(c)	C. details of monitoring and reporting requirements for impacts on heritage items,																
D68	(c)	D. procedures for dealing with previously unidentified heritage objects and relics, including cessation of works in the vicinity, assessment of the significance of the item(s) and determination of appropriate mitigation measures including when works can recommence by a suitably qualified and experienced archaeologist in consultation with the Heritage Council of NSW, and assessment of the consistency of any heritage impacts against the approved impacts of the SSI,																
D68	(c)	E. processes and mechanisms for the reuse and recycling of building and landscape components from contributory, potential and locally listed heritage items within other built or landscaped components of the SSI, and																
D68	(c)	F. heritage training and induction processes for construction personnel (including procedures for keeping records of inductions and obligations under this approval) including site identification, protection and conservation of non-Aboriginal cultural heritage; and																
D68	(c)	iii. mechanisms for the monitoring, review and amendment of the Construction Heritage Management Plan.																
D68	(c)	The Construction Heritage Management Plan must be developed in consultation with the OEH, Heritage Council of NSW (for non-Aboriginal heritage) and Registered Aboriginal Groups (for Aboriginal heritage).																

Pre-Construction Compliance Report



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D68	(d)	a Construction Flora and Fauna Management Plan to detail how construction impacts on ecology will be minimised and managed. The Construction Flora and Fauna Management Plan must be endorsed by a suitably qualified and experienced ecologist and be prepared in consultation with the OEH, and must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	27/05/2016	18/07/2016	20/07/2016	20/07/2016	Compliant	CDS-JV	The Project Construction Flora and Fauna Sub-Plan (CFFSP; M5N-ES-PLN-PWD-0007) was provided to OEH, DPI Water and the following councils for consultation on 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner West Council) - City of Botany Bay - Rockdale - Canterbury The CFFSP was prepared and submitted to DP&E for approval on 27 May 2016. The CFFSP was approved by DP&E on 20/7/2016.		
D68	(d)	i. detailed maps showing the location of impacted and adjoining flora and fauna habitat areas;																				
D68	(d)	ii. detailed maps showing where pre-clearing surveys will be undertaken to confirm the location of threatened species, populations and ecological communities;																				
D68	(d)	iii. the identification of areas to be impacted and details of management measures to avoid residual habitat damage or loss and to minimise or eliminate time lags between the removal and subsequent replacement of habitat such as –																				
D68	(d)	A. clearing minimisation procedures (including fencing),																				
D68	(d)	B. clearing procedures,																				
D68	(d)	C. removal and relocation of fauna during clearing,																				
D68	(d)	D. habitat tree management,																				
D68	(d)	E. fauna fencing, and																				
D68	(d)	F. construction worker education;																				
D68	(d)	iv. the management measures as specified in Table 2 and rows 4-12 of Table 1 of the Green and Golden Bell Frog Plan of Management presented in Appendix K of Appendix S, Volume 2H of the document referred to in condition A2(b) and in the updated management plan required by condition B14,																				
D68	(d)	v. details of the measures to be implemented to prevent impacts to the retained Green and Golden Bell Frog habitat at the Kogarah Golf Course and Marsh Street ponds including, but not limited to types and amounts of materials to be stored at the sites, bunding around the stores, erosion and sediment control measures and dust suppression measures,																				
D68	(d)	vi. proposed monitoring for the Green and Golden Bell Frog population at the Kogarah Golf Course in accordance with the updated																				

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11									
D68	(d)	management plan required by condition B14,																
D68	(d)	vii. details of the specific measures that would be implemented to protect the remaining portion of Cooks River/Castlereagh Ironbark Forest and ensure that it is not impacted by site establishment and construction activities,																
D68	(d)	viii. rehabilitation details, including identification of flora species and sources, and measures for the management and maintenance of rehabilitated areas;																
D68	(d)	ix. Noxious Weed and Pathogen Management Strategy, incorporating weed management measures focusing on early identification of invasive weeds and effective management controls, controls to prevent the introduction or spread of Phytophthora cinnamomi and myrtle rust (Puccinia psidii s./.), frog hygiene protocol to control the introduction of the Chytrid fungus (Batrachochytrium dendrobatidis), and predatory fish in Green and Golden Bell Frog habitat at Arncliffe,																
D68	(d)	x. where works impact on riparian land, a Vegetation Management Plan consistent with the DPI (2012) Guidelines for Vegetation Management Plans on Waterfront Land including (but not limited to),																
D68	(d)	xi. the monitoring of the condition of groundwater dependent ecosystems in Bardwell Valley Parkland and Broadford Street Reserve (Hinterland Sandstone Gully Forest) and Stotts Reserve (Coastal Sandstone Ridgetop Woodland),																
D68	(d)	xii. a nest box plan which addresses the replacement of hollows removed during the construction of the SSI,																
D68	(d)	xiii. a description of how the effectiveness of the flora and fauna management measures would be monitored;																
D68	(d)	xiv. a procedure for dealing with unexpected threatened species, populations and ecological communities identified during construction, including cessation of work and notification to the OEH, determination of appropriate mitigation measures in consultation with the OEH (including relevant re-location measures) and updating of ecological monitoring and/ or biodiversity offset requirements; and																

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)										
D68	(d)	mechanisms for the monitoring, review and amendment of the Construction Flora and Fauna Management Plan.																			
D68	(e)	a Construction Air Quality Management Plan to detail how construction impacts on local air quality will be minimised and managed. The Construction Air Quality Management Plan must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	27/05/2016	N/A	4/07/2016	4/07/2016	Compliant	CDS-JV	The Project Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002) was provided to OEH, DPI Water and the following councils for consultation on 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner West Council) - City of Botany Bay - Rockdale - Canterbury The CAQSP was prepared and submitted to DP&E for approval on 27 May 2016. The CAQSP was approved by DP&E on 4/7/2016.	
D68	(e)	i. identification of sources (including stockpiles and open work areas) and quantification of airborne pollutants including odour;																			
D68	(e)	ii. key performance indicators for local air quality during construction;																			
D68	(e)	iii. details of air quality monitoring methods, including location, frequency and duration of monitoring;																			
D68	(e)	iv. methods for assessing meteorological conditions and measures that would be implemented during adverse meteorological conditions;																			
D68	(e)	v. best practice management mitigation measures to minimise impacts on local air quality including, but not limited to, the relevant revised environmental mitigation measures set out in the documents listed in condition A2(c);																			
D68	(e)	vi. measures for minimising the release of construction emissions from the site, including plant and equipment;																			
D68	(e)	vii. procedures for record keeping and reporting against key performance indicators;																			
D68	(e)	viii. provisions for implementation of additional mitigation measures in response to issues identified during monitoring and reporting; and mechanisms for the monitoring, review and amendment of the Construction Air Quality Management Plan.																			
D68	(f)	a Construction Soil and Water Management Plan to manage surface and groundwater impacts during construction of the SSI. The Construction Soil and Water Management Plan must be developed in consultation with DPI (Water) and the relevant councils, and include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Construction	Y	27/05/2016	15/07/2016	15/07/2016	15/07/2016	Compliant	CDS-JV	The Project Construction Soil and Water Quality Sub-Plan (CSWQSP; M5N-ES-PLN-PWD-0005) was provided to OEH, DPI Water and the following councils for consultation on 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner West Council) - City of Botany Bay - Rockdale - Canterbury	



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D68	(f)	i. details of construction activities and their locations, which have the potential to impact on water courses and riparian land, storage facilities, stormwater flows, and groundwater, including identification of all pollutants that may be introduced into the water cycle;																		
D68	(f)	ii. processes to ensure that Water Quality Pond No.2 at Arncliffe is not decommissioned until replacement water quality devices are operational;																		
D68	(f)	iii. potential impacts on watercourse bank stability and the development of appropriate mitigation measures as required;																		
D68	(f)	iv. measures to manage and/or minimise sediment and erosion, groundwater impacts and surface water quality impacts (including stormwater runoff and groundwater treatment);																		
D68	(f)	v. where acid sulfate soils are known to occur or potentially occur, an Acid Sulfate Soils Management Plan, including measures for the management, handling, treatment and disposal of acid sulfate soils, including monitoring of water quality at acid sulfate soils treatment areas, should the project impact on acid sulfate soils;																		
D68	(f)	vi. a description of how the effectiveness of the actions and measures for managing soil and water impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, how the results of the monitoring would be recorded and reported, and, if any exceedance of the criteria is detected how any non-compliance can be rectified; and																		
D68	(f)	mechanisms for the monitoring, review and amendment of this Construction Soil and Water Management Plan.																		
E1		The provision, operation and maintenance (including all auditing and validation of data) of all air quality monitoring and reporting must be funded by the Proponent.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	The Proponent has made allowance for this condition.
E2		The Proponent must monitor (by sampling and obtaining results by analysis) the pollutants, within the tunnel using the methodologies and frequency specified in Table 4 throughout the operation of the SSI. Monitoring must commence on the first day of operation of the SSI.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This CoA applies to the operational phase of the Project and will be reported on in the quarterly Construction Compliance Reports and Pre-Operational Compliance Report. Monitoring will commence on the first day of operation of the Project in accordance with the Operational Environmental Management Plan
E2		Table 4 - In Tunnel monitoring methodology (refer sheet 2)																		



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E2		<i>Note: 1. Special Method 1 means a method approved by the Secretary in consultation with the EPA.</i>																		
E3		The number and location of the monitoring stations inside the tunnel must be determined to permit an accurate calculation, per the requirements of conditions E4, E5 and E6, and be independently verified in accordance with a methodology approved by the Secretary in consultation with the EPA, at least six months prior to the operation of the SSI. As a minimum, monitoring stations must be installed at the entry portals, the base of the ventilation outlets, tunnel and ramp junctions and at the emergency smoke extraction facility. All sampling points and visibility monitoring points established under this condition must be audited at least two months prior commencing monitoring, for compliance with the requirements set out in Table 4. Verification and compliance auditing is to be undertaken by an independent person(s) or organisation(s) whose appointment has been approved by the Secretary. Air quality data is to be made available in as close to real time as possible, under the website reporting requirements of condition E24.	N	N	N	N	N	N	N	N	Y	Operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT CDS-JV	This CoA applies to the detailed design of the tunnel air quality monitoring system and operational phase of the Project and will be reported on in the quarterly Construction Compliance Reports and Pre-Operational Compliance Report.
E4		The Proponent must ensure that the average concentrations of CO and NO2, calculated along the length of the tunnel, do not exceed the concentration limit specified for that pollutant in Table 5.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This CoA relates to the operational phase of the project and will be reported on in line with the Compliance Tracking Program.
E4		Table 5 - In-tunnel average limits along length of tunnel (refer sheet 2)																		
E5		The Proponent must ensure that the concentration of CO as measured at any single point in the tunnel must not exceed the concentration limit specified for that pollutant in Table 6 under all conditions (including congested conditions).	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This CoA relates to the operational phase of the project and will be reported on in line with the Compliance Tracking Program.
E5		Table 6 - In-tunnel single point exposure limits (refer sheet 2)																		
E6		The tunnel ventilation system must be designed and operated so that the visibility in the tunnel does not exceed the level specified in Table 7.	N	N	N	N	N	N	N	N	N	Design Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This CoA applies to the detailed design of the tunnel air quality monitoring system and operational phase of the Project and will be reported on in the quarterly Construction Compliance Reports, the Pre-Operational Compliance Report and subsequent operational reports as required in the Compliance Tracking Program.
E6		Table 7 - In-tunnel visibility limits along length of tunnel																		
E7		Prior to commencing operation, an independent person or organisation	N	N	N	N	N	N	N	N	N	Prior to operation	Y	N/A	N/A	N/A	Not yet complete	Not Yet triggered	WCX M5 AT CDS-JV	This condition will be implemented prior to operation following approval by the Secretary of the independent person. Progress will be reported in the Pre-Operation Compliance report.

Pre-Construction Compliance Report



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E7	(a)	whose appointment has been approved by the Secretary must:																	
E7	(a)	verify that compliance with in-tunnel limits detailed in Table 5, Table 6 and Table 7, will:																	
E7	(a)	(i) supplement/not preclude compliance with the predicted air quality outcomes presented in the documents referred to in condition A2, and																	
E7	(a)	(ii) not result in air quality impacts greater than predicted in the documents referred to in condition A2;																	
E7	(b)	assess how the ventilation system has been optimised, taking into consideration energy requirements and air quality impacts for tunnel users; and																	
E7	(c)	validate recorded monitoring data and certify compliance with the in-tunnel air quality limits.																	
E7		The information required in this condition will be made available to the Secretary on request.																	
E8		In addition to the general reporting requirements specified in condition E23, the Proponent must notify the Secretary, EPA and NSW Health of any recordings above the limits specified in conditions E4, E5 and E6 within 24 hours of the recorded event. The notification must detail the nature of the event, the concentration or visibility levels that occurred, the duration of the event, and the measures employed to minimise the concentration levels and/or improve the visibility levels.	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT CDS-JV	This CoA relates to an operational requirement and will be included in the Operational Environmental Management Plan. Progress will be reported where applicable, in the Pre-Operation Compliance report.
E8	(a)	This notification must provide details of the circumstances of the event, including:																	
E8	(a)	the nature and location of the event, including any details relating to the cause;																	
E8	(b)	the duration of the event;																	
E8	(c)	the extent and severity of the event;																	
E8	(d)	the measures employed to minimise the concentration levels, and measures to improve visibility levels in the event that visibility levels were above the specified limit; and																	
E8	(e)	the frequency of the event, including whether an event with the same or similar circumstances has occurred previously.																	
E8		Based on consideration of the circumstances of the event, the Secretary may request the Proponent to prepare a Tunnel Air Quality Management Systems Effectiveness																	



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		Report, in accordance with condition E9.																		
E9		Within 20 working days of any request by the Secretary under condition E8, the Proponent must prepare and submit to the Secretary a Tunnel Air Quality Management Systems Effectiveness Report on the overall system performance and cause and major contributor of any exceedances, including:	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This CoA relates to an operational requirement. The Proponent will comply with any such request by the Secretary. Any such request will be reported on in the subsequent operational compliance report.
E9	(a)	the overall performance and concentration levels in the tunnel for the preceding six month period (or since commencement of operation, where the SSI has operated for under six months), including average and maximum levels and time periods;																		
E9	(b)	details of any instances throughout the operation of the SSI where pollutant concentration levels in the tunnel have exceeded the limits specified in conditions E4, E5 and E6; and																		
E9	(c)	consideration of improvements to the tunnel air quality management system.																		
E9		The Tunnel Air Quality Management Systems Effectiveness Report is to be prepared by the Proponent and reviewed by a suitably qualified and experienced independent specialist(s) whose appointment has been approved by the Secretary. The Proponent must comply with any requirements arising from the Secretary's review of the Tunnel Air Quality Management Systems Effectiveness Report.																		
E10		The Proponent must monitor (by sampling and obtaining results by analysis) the pollutants and parameters specified in Table 8 at the following locations as a minimum:	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This CoA relates to an operational requirement. These reporting requirements will be included in the Operational Environmental Management Plan and will be reported on in the Pre-Operation Compliance Report and the operational compliance reports.
E10	(a)	two ground level receptors near the Kingsgrove ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet;																		
E10	(b)	two ground level receptors near the Arncliffe ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet;																		
E10	(c)	two ground level receptors near the St Peters ventilation outlet, at locations suitable for detecting any impact on air quality from the outlet;																		
E10	(d)	one location within the vicinity of the St Peters Interchange, as a location suitable for detecting any impact on air																		



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			1A: C1-C3 1B: C4-C11 1C: HV Power 2A: C1-C3 2B: C4-C6 2C: C7 2D: C8-C11 2E: C12-C14 3 (Tunnels)									
E10	(e)	quality within the surrounding residential receptors; and one location, away from any of the locations at (a) to (d), suitable for providing background ambient air quality reference data for the project area. The Proponent must use the sampling method, units of measure, and sampling frequency specified in Table 8. Table 8 - Ambient Air Quality Monitoring Methodologies (refer sheet 2) Notes: 1. Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA, 2007) or as otherwise agreed to in writing by the Secretary in consultation with the EPA. 2. AS3580.9.8-2008, Methods for the Sampling and Analysis of Ambient Air – Determination of Suspended Particulate Matter – PM10 Continuous Direct Mass Method using Tapered Element Oscillating Microbalance Analyser (Standards Australia, 2008). 3. AS 3580.9.13-2013, Methods for the Sampling and Analysis of Ambient Air – Determination of Suspended Particulate Matter – PM2.5 Continuous Direct Mass Method using a Tapered Element Oscillating Microbalance Analyser (Standards Australia, 2013). 4. TBD - location for meteorological monitoring station(s) to be representative of weather conditions likely to occur in the vicinity of the Kingsgrove, Arncliffe and St Peters ventilation outlets. 5. Appropriately modified to include size selective inlet for PM2.5 or as otherwise approved by the Secretary.										

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
E11		The monitoring locations must be selected with the objective of achieving like-to-like comparison of monitoring results with available pre-construction data. The locations must also allow for the independent team of experts to review the accuracy of predicted environmental outcomes discussed in the documents referred to in conditions A2(b) and A2(c) as part of the environmental audit required under condition E51. All monitoring stations must be established in locations agreed to by the AQCC and subject to the land owner's and occupier's agreement. The establishment and operation of the stations is to be undertaken in accordance with recognised Australian standards and undertaken by an organisation accredited by NATA for this purpose and approved by the Secretary in consultation with the EPA and the AQCC. The quality of the monitoring results must be assured through a NATA accredited process prior to the data being considered as a basis for compliance/auditing purposes.	N	N	N	N	N	N	N	N	N	Design Operation	Y	N/A	N/A	N/A	Not yet complete	Not Yet triggered	WCX M5 AT CDS-JV	Monitoring locations will be selected in locations agreed to by the AQCC that allow like-to-like comparison with pre-construction data. Locations will be reported in Quarterly Construction Compliance Reports and the Pre-Operational Compliance Report.
E12		Monitoring results must be made publicly available and must be subject to an independent audit at six-monthly intervals (or at a longer interval, if approved by the Secretary). The auditor must be approved by the Secretary in consultation with the EPA and the AQCC, and the auditor's report must be directly provided to the Proponent and the AQCC.	N	N	N	N	N	N	N	N	N	Operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT CDS-JV	This CoA relates to an operational requirement. These reporting requirements will be addressed in the Operational Environmental Management Plan and reported on in the Pre-Operation Compliance Report.
E13		The Proponent must commence monitoring for at least twelve continuous months prior to operation and continue monitoring for at least two years following the commencement of operation. At the conclusion of the two year operational monitoring period, the Proponent must review the need for the commencement of the continuation of the ambient monitoring stations in consultation with the AQCC. Any recommendation to close any or all of the stations will require the approval of the Secretary in consultation with the EPA.	N	N	N	N	N	N	N	N	N	12 months prior to operation	Y	N/A	N/A	N/A	Not yet complete	Not Yet triggered	WCX M5 AT CDS-JV	This CoA relates to a pre-operational and operational requirement. These reporting requirements will be addressed in the Operational Environmental Management Plan, the Pre-Operation Compliance Report and subsequent operational compliance reports.
E14	(a)	Should ambient monitoring of air pollutants exceed the following goals, the provisions of conditions E15, E16 and E17 will apply: CO – 8 hour rolling average of 9.0 ppm (NEPM);	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This CoA relates to an operational requirement. These limits will be included in the Operational Environmental Management Plan.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
E14	(b)	NO2 – One hour average of 0.12 ppm (245 µg/m3) (NEPM);																		
E14	(c)	PM10 – 24 hour average of 50 µg/m3 (NEPM);																		
E14	(d)	PM2.5 – 24 hour average of 25 µg/m3 (NEPM)																		
E14	(e)	PM10 – annual average of 25 µg/m3 (NEPM); and																		
E14	(f)	PM2.5 – annual average of 8 µg/m3 (NEPM)																		
E15		In addition to the general reporting requirements specified in condition E23, the Proponent must prepare an Ambient Air Quality Goal Protocol for the evaluation of a potential measurement that exceeds the goals. The Ambient Air Quality Goal Protocol must be developed by the Proponent in consultation with the AQCC and submitted to the Secretary for approval at least 12 months prior to the commencement of operation of the SSI.	N	N	N	N	N	N	N	N	N	12 months prior to operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	
E15	(a)	The Ambient Air Quality Goal Protocol must include: the form of and process for providing a Notification of Above-Goal Recording, subject to condition E16;																		
E15	(b)	the form and contents of a Report on Above-Goal Recording, subject to condition E17;																		
E15	(c)	and a process for appointing an independent person/organisation to prepare the Report on Above-Goal Reading. The process must include –																		
E15	(i)	(i) approval of the independent person/organisation by the Secretary prior to preparation of the report, and																		
E15	(ii)	(ii) the appointment of the independent person/organisation at least with the agreement of the Secretary, one month prior to the commencement of operation, or at some other time prior to preparation of the report																		
E16		The Ambient Air Quality Goal Protocol must provide a Notification of Above-Goal Recording if ambient monitoring of air pollutants records an exceedance of the goals in condition E14. The Notification of Above-Goal Recording is to be submitted within 24 hours of the recording, to the Secretary, EPA and NSW Health. The Notification of Above-Goal Recording must detail:	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	
E16	(a)	the nature of the event;																		
E16	(b)	the concentration or visibility levels that occurred;																		
E16	(c)	the duration of the event;																		

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
E16	(d)	the measures employed to minimise the concentration levels and/or improve the visibility levels; and																		
E16	(e)	the Proponent's commitment to prepare and submit a Report on Above-Goal Recording in accordance with condition E17.																		
E17		<p>Within 20 working days of any Notification of Above-Goal Recording, the Proponent must prepare and submit to the Secretary a Report on Above-Goal Recording that details the cause and major contributor of the exceedance and the options available to prevent recurrence.</p> <p>Where the operation of the tunnel is identified to be a significant contributor to the recorded above-goal reading, the Report on Above-Goal Recording must include consideration of improvements to the tunnel air quality management system so as to achieve compliance with the ambient air quality goals, including but not limited to installation of the additional ventilation management facilities allowed for under condition 85, and discussion of whether those improvements are feasible and reasonable.</p> <p>The Proponent must comply with any requirements arising from the Secretary's review of the Report on Above-Goal Recording.</p>	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	This condition will be included in the Protocol and activated as required during the operational phase of the Project. Any activation of this condition will be reported on in the subsequent operational compliance report.
E18		<p>The Proponent must install monitoring equipment to monitor pollutants from the ventilation outlets. Pollutant monitoring from the ventilation outlets (by sampling and obtaining results by analysis) must be in accordance with the methods and frequencies for the pollutants and parameters specified in Table 9 and be undertaken at commencement of and throughout the operation of the SSI.</p> <p>The monitoring equipment must be independently audited prior to the commencement of monitoring for compliance with the requirements set out in Table 9. The independent person(s) or organisation(s) must be approved by the Secretary and paid for by the Proponent.</p> <p>Table 9 - Ventilation Outlet Emission Monitoring Methodologies (refer sheet 2)</p>	N	N	N	N	N	N	N	N	Y	Construction Operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	Design and specification of ventilation outlet monitoring equipment will be in accordance with this condition. This design will be detailed in the In-Stack Air Monitoring Report. The proposed Independent Auditor will be submitted to the Secretary for approval prior to the commencement of operation and will be reported on in the Pre-Operation Compliance Report.
E18																				

Pre-Construction Compliance Report



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E18		Notes: 1. Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (EPA 2007) or an alternative method approved by the Secretary in consultation with the EPA. 2. Must include, but not be limited to: Benzene, Toluene, Xylenes, 1,3-Butadiene, Formaldehyde and Acetaldehyde. 3. Must include, but not limited to; 16 USEPA priority PAHs, namely; Naphthalene, Phenanthrene, Benz(a)anthracene, Benzo(a)pyrene, Acenaphthylene, Anthracene, Chrysene, Indeno(1,2,3-cd)pyrene, Acenaphthene, Fluoranthene, Benzo(b)fluoranthene, Dibenzo(a,h)anthracene, Fluorene, Pyrene, Benzo(k)fluoranthene, Benzo(g,h,i)perylene. 4. Special Method 1 means a method approved by the Secretary in consultation with the EPA.																	
E19		The concentration of a pollutant discharged from the ventilation outlets must not exceed the respective limits specified for that pollutant in Table 10. Table 10 - Ventilation Outlet Mass Pollutant Concentrations (refer sheet 2)	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This CoA relates to an operational requirement. These limits will be included in the Operational Environmental Management Plan, which will be reported on in the Pre-Operational Compliance Report.
E20		An independent person or organisation approved by the Secretary must:	N	N	N	N	N	N	N	N	Operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	This CoA relates to an operational requirement. An independent verifier will be recommended by the proponent, for approval of the Secretary, prior to the commencement of operation. The requirements for independent verification will be addressed in the Operational Environmental Management Plan.
E20	(a)	verify that compliance with ventilation outlet limits detailed in Table 10 will -																	
E20	(a)	(i) supplement/not preclude compliance with the predicted air quality outcomes presented in the documents referred to in conditions A2(b) and A2(c), and																	
E20	(a)	(ii) not result in air quality impacts greater than predicted in the documents referred to in conditions A2(b) and A2(c);																	
E20	(b)	assess how ventilation outlet discharge velocities have been optimised taking into consideration energy requirements and air quality impacts at all sensitive receivers; and,																	
E20	(c)	validate recorded monitoring data and certify compliance with the ventilation outlet limits.																	
E20		The information required in this condition must be made available to the Secretary on request.																	

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11										2E: C12-C14
E20		The ventilation outlet limits detailed in Table 10 must be reviewed on a five-yearly basis following commencement of operation of the SSI and may be lowered (i.e. made more stringent), subject to a sustainability assessment and there being improvements in vehicle fleet emissions, if the Proponent is directed to do so by the Secretary following consultation with the EPA.																	
E21		Should the results of monitoring show that any of the ventilation outlet limits specified in condition E19 have been exceeded, the Proponent must notify the Secretary, EPA and NSW Health within 24 hours of the recorded event. The notification must be followed up with a detailed report within 20 working days, which must be prepared by the Proponent, reviewed by a suitably qualified and experienced independent specialist(s), and submitted to the Secretary, on the cause and major contributor of the exceedance and the options available to prevent recurrence. The Secretary must approve the independent person/organisation prior to the commencement of operation, or at some other time prior to preparation of the report. Where the operation of the tunnel is identified to be a significant contributor to the recorded exceedance, this report must include consideration of improvements to the tunnel air quality management system so as to achieve compliance with the ambient air quality goals, including but not limited to installation of the additional ventilation management facilities allowed for under condition 85, and discussion of whether those improvements are feasible and reasonable. The Proponent must comply with any requirements arising from the Secretary's review of the Report.	N	N	N	N	N	N	N	N	Operation	Y	N/A	N/A	Not yet approved	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This condition relates to operational monitoring and will be complied with, as necessary, and reported on in the operational compliance reports. The proponent will recommend an independent person for approval prior to the commencement of operation and this will be reported on in the Pre-Operation Compliance Report.
E22		Conditions E4, E5, E6, E14 and E19 do not apply in an emergency, as defined in the OEMP required by condition E31(g). The Proponent must, as soon as reasonably practicable, notify the Secretary and the EPA of any such discharge.	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This condition will be addressed in the OEMP and notifications will be provided during the operational phase as required.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
E23		The Proponent must develop and implement a reporting system for in-tunnel, ambient and ventilation outlet limits in consultation with the EPA. The reporting system must be approved by the Secretary and fully implemented and operational prior to operation. Minimum analytical reporting requirements for air pollution monitoring stations must be as specified in the Approved Methods of Modelling and Assessment of Air Pollutants in NSW (EPA 2007, or as updated).	N	N	N	N	N	N	N	N	N	Prior to operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	A reporting system will be developed in consultation with the EPA and submitted to DPE for approval prior to operation. This condition will be reported on in the Pre-Operation Compliance Report.
E24		Results of hourly updated real-time ambient monitoring of PM10, PM2.5, visibility, NO2, and CO at the approved monitoring stations, in-tunnel CO/NO2 and ventilation outlet measurements, and relevant meteorological data, must be provided on a website and made publicly available each month in hard copy format in an easy to interpret format. This data must be preliminary until a quality assurance check has been undertaken by a person or organisation accredited by NATA for this purpose. The availability of this data must be conveyed to the local community by way of newsletter (including translation into common community languages in the area) and newspaper advertisement at least one month prior to the commencement of operation.	N	N	N	N	N	N	N	N	N	Prior to operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	The requirements for public provision of monitoring data will be addressed in the OEMP. The required community notifications will be provided one month prior to operation. This condition will be reported on in the Pre-Operation Compliance Report and subsequent operation compliance reports.
E25		The provision, operation and maintenance (including all auditing and validation of data) of all air quality monitoring and reporting must be funded by the Proponent.	N	N	N	N	N	N	N	N	Y	Construction Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This requirement is noted and will be complied with.
E26		All continuous emissions monitoring systems installed and operated as a requirement of condition E18 must undergo relative accuracy test audits at an interval not exceeding 12 months, or as otherwise agreed to by the Secretary in consultation with the EPA.	N	N	N	N	N	N	N	N	Y	Construction Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This requirement will be addressed in the OEMP and reported on in the operational compliance reports.

Pre-Construction Compliance Report



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E27		The Proponent must appoint an external auditor to conduct an audit of the air quality monitoring (in-tunnel and external) at six-monthly intervals or at any longer interval if approved by the Secretary. Air quality audits must commence six months from commencement of operation. The auditor must ensure that the operating procedures and equipment to acquire air monitoring, meteorological data and emission monitoring data and monitoring reporting comply with NATA (or equivalent) requirements and sound laboratory practice. The Proponent must document the results of the audit and make available all audit data for inspection by the Secretary upon request. A copy of the audit report must also be issued to the Proponent and AQCCC. The auditor must be approved by the Secretary in consultation with the EPA and the AQCCC, and the auditor's report must be directly provided to the Proponent and the AQCCC.	N	N	N	N	N	N	N	N	Operation	Y	N/A	N/A	Not yet approved	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	An external auditor will be recommended for approval by the Secretary, in consultation with the EPA, within six months of the commencement of operation. Auditing and reporting required under this condition will be addressed in the OEMP and will be reported on in the operational compliance reports.
E28		The Proponent must undertake appropriate quality assurance (QA) and quality control (QC) measures for air quality and ventilation outlet emission monitoring data. This must include, but not be limited to: accreditation/quality systems, staff qualifications and training, auditing, monitoring procedures, service and maintenance, equipment or system malfunction and records/reporting. The QA/QC measures must be approved by an independent expert approved by the Secretary prior to monitoring of air quality and ventilation outlet emissions as appropriate.	N	N	N	N	N	N	N	N	Operation	Y	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT	QA and QC measures will be addressed in the OEMP and will be approved by an independent expert that has been approved by the Secretary prior to commencement of monitoring. This will be reported on in the Pre-Operation Compliance Report.

Pre-Construction Compliance Report



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E29		The Proponent must assist the relevant council(s) in developing an air quality assessment process for inclusion in a Development Control Plan or other appropriate planning instrument, in considering planning and building approvals for new development in areas adjacent to the ventilation outlets which would be within a potential three-dimensional zone of affectation (buffer volume). This process must include procedures for identifying the width and height of buildings that are likely to be either affected by the plume from the ventilation outlet or affect the dispersion of the plume from the ventilation outlet through building wake effects. A part of this process, the Proponent must provide data detailing the results of modelling of pollution concentrations at various heights and distances from the ventilation outlets. The Proponent must meet all reasonable costs for the development of this process and any necessary amendments to the planning instrument(s) required to implement the process.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This CoA will be complied with during the operational phase and will be reported on in the Pre-Operation Compliance Report and subsequent operation compliance reports.
E30		Prior to operation, the Proponent must investigate, in consultation with the EPA, the measures for smoky vehicle enforcement in the New M5 tunnels, taking into consideration cost effectiveness. Any measures implemented as a result of investigation recommendations must be in accordance with current RMS smoky vehicle enforcement programs. The effectiveness of the smoky vehicle enforcement measures must be documented in the Independent Environmental Audit required under condition E51.	N	N	N	N	N	N	N	N	N	Prior to operation	N	N/A	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT RMS CDS-JV	This CoA will be complied with and reported on in the Independent Environmental Audit and the Pre-Operation Compliance Report.
E31		Prior to the commencement of operation, or as otherwise agreed by the Secretary, the Proponent must prepare and implement an Operation Environmental Management Plan (OEMP) for the SSI. The OEMP must outline the environmental management practices and procedures that are to be followed during operation, and must be prepared in consultation with relevant agencies and in accordance with the Guideline for the Preparation of Environmental Management Plans (Department of Infrastructure, Planning and Natural Resources, 2004). The OEMP must include, but not be limited to:	N	N	N	N	N	N	N	N	N	One month prior to operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	The OEMP will be prepared and implemented in accordance with this condition prior to operation. Operation will not commence until approval of the OEMP has been obtained from the Secretary. This CoA will be reported on in the Pre-Operation Compliance Report.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11									
E31	(a)	a description of activities to be undertaken during operation of the SSI (including staging and scheduling);																
E31	(b)	statutory and other obligations that the Proponent is required to fulfil during operation, including approvals, consultations and agreements required from authorities and other stakeholders under key legislation and policies;																
E31	(c)	overall environmental policies, guidelines and principles to be applied to the operation of the SSI;																
E31	(d)	a description of the roles and responsibilities for relevant employees involved in the operation of the SSI, including relevant training and induction provisions for ensuring that employees are aware of their environmental and compliance obligations under these conditions of approval;																
E31	(e)	an environmental risk analysis to identify the key environmental performance issues associated with the operation phase;																
E31	(f)	details of periodic testing of the tunnel ventilation system;																
E31	(g)	a definition of emergency as it applies to conditions 84, E22 and E44; and																
E31	(h)	details of how environmental performance would be managed and monitored to meet acceptable outcomes, including what actions will be taken to address identified potential adverse environmental impacts, including those safeguards and mitigation measures detailed in Section 8 the document referred to in condition A2 (and any impacts arising from the staging of the construction of the SSI). In particular, the following environmental performance issues must be addressed in the OEMP -																
E31	(h)	(i) air quality,																
E31	(h)	(ii) noise and vibration, through preparation of the Operational Noise Management Plan required under condition E34,																
E31	(h)	(iii) traffic,																
E31	(h)	(iv) climate change and energy use,																
E31	(h)	(v) visual amenity and landscaping,																
E31	(h)	(vi) groundwater level/pressure, inflows, groundwater contamination, treatment and discharge, soil, and subsidence,																
E31	(h)	(vii) groundwater dependent ecosystems, and																

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14									
E31	(h)	(viii) surface water quality and hydrology, including stormwater management. The OEMP must be submitted for the approval of the Secretary no later than one month prior to the commencement of operation, or as otherwise agreed by the Secretary. Operation must not commence until written approval of the OEMP has been received from the Secretary. <i>Note:</i> • The approval of an OEMP does not relieve the Proponent of any requirement associated with this SSI approval. If there is an inconsistency with an approved OEMP and the conditions of this SSI approval, the requirements of this SSI approval prevail.																	
E32		The SSI must be designed and operated with the objective of meeting the requirements of the NSW Road Noise Policy (DECCW, 2011) and must, where feasible and reasonable, include the provision of at-property architectural treatment to all affected sensitive receivers in multi-level dwellings where the project noise criteria are exceeded, unless otherwise agreed to by the owner of the noise-affected residence.	N	N	N	N	N	N	N	N	Design Operation	N	N/A	N/A	N/A	Ongoing	Not yet triggered	WCX M5 AT RMS CDS-JV	This CoA applies to the detailed design of the project which is ongoing and will be reported on in the quarterly Construction Compliance Reports and Pre-Operational Compliance Report. This CoA also applies to the operational phase, which will be reported on in the quarterly Pre-Operational Compliance Report.
E33		The Proponent must design and operate all fixed facilities, including the motorway operations complexes, tunnel portals; ventilation facilities, substations, pumps and water treatment plants, maintenance facility, workshops, car parking and the emergency smoke extraction outlets with the objective of not exceeding the noise requirements of the <i>NSW Industrial Noise Policy</i> (EPA, 2000) and the Sleep Disturbance Application Note to the <i>NSW Industrial Noise Policy</i> . The Proponent must apply mitigation at existing receivers where the noise requirements cannot be achieved.	N	N	N	N	N	N	N	N	Design Operation	N	N/A	N/A	N/A	Ongoing	Not yet triggered	WCX M5 AT CDS-JV	This CoA applies to the detailed design of the project which is ongoing and will be reported on in the quarterly Construction Compliance Reports and Pre-Operational Compliance Report. This CoA also applies to the operational phase, which will be reported on in Pre-Operational Compliance Report.
E34		A detailed Operational Noise Management Plan must be prepared as part of the Operational Environmental Management Plan required by condition E31 and submitted to the Secretary for approval . The Operational Noise Management Plan must provide details of noise and vibration control measures to be undertaken during the operation stages, and generally in accordance with the NSW Road Noise Policy (DECCW, 2011) and the NSW Industrial Noise Policy (EPA, 2000). The Operational Noise Management	N	N	N	N	N	N	N	N	One month prior to operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	This CoA will be addressed as part of the OEMP which will be submitted to the Secretary for approval prior to the commencement of operation and will be reported on in the Pre-Operational Compliance Report.



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11									
		Plan must include, but not be limited to:																
E34	(a)	tests for ascertaining acoustic parameters;																
E34	(b)	predicted noise levels;																
E34	(c)	noise criteria for operation of the project based on the objectives of the NSW Road Noise Policy (DECCW, 2011) and the NSW Industrial Noise Policy (EPA, 2000);																
E34	(d)	location, type and timing of erection of permanent noise barriers and/or other noise mitigation measures (including details of the barrier to replace the existing noise mound at Beverly Grove Park, consistent with the requirements of condition B62(f) demonstrating best practice including silencers and building treatments for associated plant rooms and enclosures for exposed plant;																
E34	(e)	specific physical and managerial measures for controlling noise;																
E34	(f)	noise monitoring, reporting and response procedures including the monitoring on surrounding roads which experience significantly increased traffic volumes as a result of the project, and including operational facilities;																
E34	(g)	procedures for operational noise and vibration complaints management, including investigation and monitoring (subject to complainant agreement); and																
E34	(h)	an Operational Ancillary Facility Noise Management Sub-Plan including, but not limited to -																
E34	(h)	(i) identification of the final location of all operational ancillary facilities and plant including the Motorway Complex, ventilation facilities, tunnel jet fans and water treatment plants,																
E34	(h)	(ii) the sound power levels of all chosen equipment and plant to be utilised during operation including spectral sound characteristics and frequency data,																

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
E34	(h)	(iii) identification and/or confirmation of sensitive receivers and appropriate categorisation of the surrounding area in accordance with the INP,																		
E34	(h)	(iv) identification of the applicable noise goals, including spectral frequency, for all sensitive receivers identified as being potentially impacted by any operational ancillary facility,																		
E34	(h)	(v) presentation of noise assessment and predicted impacts including the use of mapping and noise contours,																		
E34	(h)	(vi) identification and implementation of appropriate mitigation measures including building treatment, site layout, attenuators and demonstration that chosen mitigation measures can adequately achieve the noise goals in the INP, and																		
E34	(h)	(vii) details of maintenance and inspection schedules to ensure plant, equipment and other operational ancillary facilities are operating at optimal levels; and																		
E34	(i)	mechanisms for the monitoring and review of the Operational Noise Management Plan.																		
E35	(a)	For the purpose of assessment of noise criteria specified in the Operational Noise Management Plan, required under condition E34, noise from the development arising from ventilation facilities and plant must be:	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT CDS-JV	This CoA will be addressed in the Operational Noise Management Plan, part of the OEMP, to be submitted to the Secretary for approval prior to operation. This CoA will be reported on in the Pre-Operational Compliance Report.
E35	(b)	measured at the most affected point on or within the site boundary at the most sensitive locations to determine compliance with LAeq,T noise limits;																		
E35	(c)	measured in the free field at least three to five metres from any vertical reflecting surface in line with the worst-affected dwelling facade to determine compliance with LMax noise limits; and																		
E35	(d)	subject to the modification factors provided in Section 4 of the NSW Industrial Noise Policy (EPA, 2000), where applicable.																		
E35	(e)	Notwithstanding, should direct measurement of noise from the fixed facilities be impractical, the Proponent may employ an alternative noise assessment method deemed acceptable by the EPA (refer to Section 11 of the NSW Industrial Noise Policy (EPA, 2000)). Details of such an alternative noise assessment method accepted by the EPA must be submitted to the Secretary prior to the																		

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
		implementation of the assessment method.																		
E36		The Proponent must design and operate the SSI with the objective, where feasible and reasonable, of not exceeding the vibration goals for human exposure for existing receivers, as presented in <i>Assessing vibration: a technical guideline</i> (DECC, 2006).	N	N	N	N	N	N	N	N	N	Design Operation	N	N/A	N/A	N/A	Ongoing	Not yet triggered	WCX M5 AT CDS-JV	This CoA applies to the detailed design of the project which is ongoing and will be reported on in the quarterly Construction Compliance Reports and Pre-Operational Compliance Report. This CoA also applies to the operational phase, which will be reported on in the operational compliance reports.
E37		The Proponent must prepare an Operational Noise and Vibration Review (ONVR) to confirm noise and vibration control measures that would be implemented for the project. The ONVR must be prepared in consultation with the Department, relevant councils, other relevant stakeholders and the community and must:	N	N	N	Y	Y	Y	Y	Y	N	Construction	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	This CoA relates to the design and construction of operational noise and vibration measures. The ONVR will be submitted to the Secretary for approval prior to the commencement of construction of physical noise mitigation structures. Implementation of the ONVR will be reported on during the Pre-Operation Compliance Report and subsequent operational compliance reports.
E37	(a)	confirm the appropriate operational noise and vibration objectives and levels for adjoining development, including existing sensitive receivers;																		
E37	(b)	confirm the operational noise predictions of the project based on the final design. Confirmation must be based on an appropriately calibrated noise model (which has incorporated additional noise monitoring, and concurrent traffic counting, where necessary for calibration purposes). The assessment must specifically include verification of noise levels at all fixed facilities, based on additional noise monitoring undertaken at appropriately identified noise catchment areas surrounding the facilities;																		
E37	(c)	confirm the operational noise and vibration impacts at adjoining development based on the final design of the project, including operational daytime LAeq 15 hour and night-time LAeq 9 hour traffic noise contours;																		
E37	(d)	review the suitability of the operational noise mitigation measures identified in the documents referred to at conditions A2(b) and A2(c) and, where necessary, investigate and identify additional feasible and reasonable noise and vibration mitigation measures required to achieve the noise criteria outlined in the NSW Road Noise																		

Pre-Construction Compliance Report



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E37	(e)	Policy (DECCW, 2011) and NSW Industrial Noise Policy (EPA, 2000), including the timing of implementation;																
E37	(f)	include a consultation strategy to seek feedback from directly affected property owners (including educational institutions) on the noise and vibration mitigation measures; and procedures for the management of operational noise and vibration complaints.																
E37		The ONVR is to be verified by a suitably qualified and experienced noise and vibration expert. The ONVR is to be undertaken at the Proponent's expense and submitted to the Secretary for approval prior to the commencement of construction of physical noise mitigation structures, unless otherwise agreed by the Secretary.																
E37		The Proponent must implement the identified noise and vibration control measures and make the ONVR publicly available.																
E38	(a)	Within 12 months of the commencement of the operation of the SSI, or as otherwise agreed by the Secretary, the Proponent must undertake operational noise and vibration monitoring to compare the actual noise and vibration performance of the SSI against the noise performance predicted in the Operational Noise and Vibration Review required by condition E37 and the documents referred to in conditions A2(b) and A2(c). The monitoring program must be documented in an Operational Noise and Vibration Compliance Report . The Operational Noise and Vibration Compliance Report must include, but not be limited to:	N	N	N	N	N	N	N	N	Within 12 months of commencement of operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV
E38	(b)	details of the noise and vibration monitoring program including methodology, location and frequency of noise monitoring; results of the monitoring program and an assessment of these against the operational noise criteria specified in the Operational Noise Management Plan required by condition E34 and noise levels predicted in the Operational Noise Review required by condition E37 and the documents referred to in conditions A2(b) and A2(c);																

Pre-Construction Compliance Report



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E38	(c)	details of any complaints received relating to operational noise and vibration impacts;																		
E38	(d)	any required recalibration of the noise and vibration model taking account considerations such as traffic numbers and land use change (if applicable);																		
E38	(e)	an assessment of the performance and effectiveness of the applied noise and vibration mitigation measures with regard to the operational noise criteria specified in the Operational Noise Management Plan required by condition E34; and																		
E38	(f)	identification of any further feasible and reasonable noise and vibration mitigation measures required to meet the noise criteria specified in the Operational Noise Management Plan, where the criteria are exceeded, including timing and responsibilities for implementation.																		
E38		The Proponent must provide the Secretary and the EPA with a copy of the Operational Noise and Vibration Compliance Report within 60 days of completing the operational noise monitoring, or as otherwise agreed by the Secretary.																		
E39		The Proponent must implement further feasible and reasonable mitigation measures (where required) as identified in the Operational Noise and Vibration Compliance Report in consultation with affected property owners.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT RMS CDS-JV	This CoA will be complied with where required during the operational phase.
E40		At both 12 months and 5 years after the commencement of operation of the SSI, or as otherwise agreed to by the Secretary, the Proponent must prepare a Road Network Performance Review Plan in consultation with Transport for NSW and the relevant councils that includes:	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV	This CoA applies to the operational phase and will be reported on in the operational compliance reports.
E40	(a)	an updated analysis, including modelling of traffic impacts to the adjoining road network (including impacts on local roads and rat-running), as a consequence of the SSI. This must include a review of new information available about potential land use changes, and any traffic changes as a result of other major road projects within the project area;																		
E40	(b)	further detailed investigations at the following intersections or sections of the road network-																		
E40	(b)	(i) potential 'pinch-points' where the merging of tunnel exit traffic and surface traffic would occur at the King Georges Road Interchange and the St Peters Interchange,																		

Pre-Construction Compliance Report



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E40	(b)	(ii) King Street, between Sydney Park Road and Enmore Road,																
E40	(b)	(iii) Euston Road, between Sydney Park Road and Botany Road,																
E40	(b)	(iv) Princes Highway/Campbell Street,																
E40	(b)	(v) Princes Highway/Canal Road,																
E40	(b)	(vi) Princes Highway/Railway Road,																
E40	(b)	(vii) Gardeners Road/O'Riordan Street,																
E40	(b)	(viii) Sydney Park Road/Mitchell Road,																
E40	(b)	(ix) Gardeners Road/Bourke Road,																
E40	(b)	(x) Unwins Bridge Road/Campbell Street, and																
E40	(b)	(xi) Campbell Road/Euston Road;																
E40	(c)	updated consideration of potential mitigation measures to manage any predicted traffic performance deficiencies in association with the investigations undertaken under (b);																
E40	(d)	the predicted traffic performance improvements from these measures, including any cumulative improvements;																
E40	(e)	details on bus priority measures;																
E40	(f)	a comparison of the pre- and post-road network performance for all road users including, but not limited to, vehicles, freight, public transport and active transport;																
E40	(g)	justification of why the predicted 'do minimum' performance for any road users of any intersection on the adjoining road network cannot be maintained (if necessary); and																
E40	(h)	an updated description and proposed timing of potential mitigation measures, including measures to remove or limit any adverse impacts on any road user groups impacted by the SSI.																
E40		The Proponent is responsible for the implementation of the identified measures, if required.																
E40		The Road Network Performance Review Plan must be submitted to the Secretary, Transport for NSW (in relation to impacts on bus services) and to relevant council(s) within 60 days of its completion and made publicly available.																



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E40		The purpose of the Road Network Performance Review Plan is to optimise road network performance including public transport access and times, and manage the performance impacts of the SSI on the adjoining road network by identifying or confirming mitigation improvements that could be required in areas where traffic performance may be unsatisfactory at time of completion of construction. <i>Note:</i> • Identified mitigation measures may need to be further assessed under the Environmental Planning and Assessment Act, 1979. Works will need to meet relevant design standards and be subject to independent road safety audits.																	
E41		The Proponent must liaise with relevant councils during detailed design to improve integration of the project with the local and regional road network. The outcomes of this consultation will be reported and incorporated in the Road Network Performance Review Plan required under condition E40.	N	N	N	N	N	N	N	N	Design Operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	Consultation with Councils is ongoing during the design process and the outcomes of this will be incorporated into the Road Network Performance Review Plan. Compliance with this condition will be reported in the operational compliance reports.
E42		The Proponent must prepare and implement an Operational Parking and Access Strategy to facilitate the optimisation of the return of on- and off-street parking removed or altered during construction and consequent to the operation of the SSI. The Strategy shall include, but not necessarily be limited to:	N	N	N	N	N	N	N	N	12 months prior to operation	Y	N/A	N/A	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV	The Operational Parking and Access Strategy will be prepared and submitted to the Secretary at least 12 months prior to operation in accordance with this condition. Compliance with this condition will be reported on in the Pre-Operation Compliance Report. Implementation of the Operational Parking and Access Strategy will be reported on during the operational compliance reports.
E42	(a)	confirmation and timing of the return of on- and off-street parking removed or altered as a result of construction and operation of the SSI with reference to the Residual Land Management Plan required in condition B67;																	
E42	(b)	review of comprehensive parking surveys required in condition D50(b) with consideration of changes in demand attributable to land use changes, acquisitions or other cumulative impacts;																	
E42	(c)	consultation with affected stakeholders, including relevant councils, that will experience continued loss, return or additional on- and off-street parking;																	
E42	(d)	assessment of the impacts of changes to on- and off-street parking stock taking into consideration of outcomes of consultation with affected stakeholders and reviews of parking surveys;																	



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E42	(e)	identification of mitigation measures and arrangements to manage impacts to stakeholders as a result of on- and off-street parking changes including, but not necessarily limited to, provision of alternative parking arrangements, and working with relevant councils to introduce parking restrictions or permit schemes where appropriate;																		
E42	(f)	mechanisms for monitoring of on- and off-street parking impacts and mitigation measures at 12 month intervals to determine the effectiveness of implemented mitigation measures and any supply and demand induced parking issues that are attributable to the SSI;																		
E42	(g)	provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and																		
E42	(h)	provision of reporting of monitoring results to the Secretary and relevant councils at 12 month intervals for the first five years of operation.																		
E42		The use of residual land to achieve compliance with the objective of optimising the return of all on- and off-street parking is permitted. However, this must be justified within the Residual Land Management Plan required by condition B67.																		
E42		The Strategy must be submitted to the Secretary for approval at least 12 months prior to the operation of the SSI, unless otherwise agreed by the Secretary. The Strategy must be implemented prior to the operation of the SSI.																		
E43		The ongoing maintenance and operation costs of urban design, open space, landscaping and recreational items and works implemented as part of this approval will remain the Proponent's responsibility until satisfactory arrangements have been put in place for the transfer of the asset to the relevant authority. Prior to the transfer of assets, the Proponent will maintain items and works to at least the design standards established in the Urban Design and Landscape Plan required by condition B61.	N	N	N	Y	Y	Y	Y	Y	Y	Construction Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT RMS CDS-JV	This condition will be complied with during the construction and operational phases, as required, and will be reported on in the relevant quarterly Construction Compliance Reports, the Pre-Operation Compliance Report and the operational compliance reports as necessary.
E44		Six months prior to operation, the Proponent must prepare an Emergency Response Plan , in consultation with FRNSW and NSW Police Force. The Emergency Response Plan must include, but not be limited to:	N	N	N	N	N	N	N	N	6 months prior to operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	An Emergency Response Plan will be prepared six months prior to operation and an emergency response exercise will be conducted at least one month prior to opening of the tunnels. This condition will be reported on during the Pre-Operation Compliance Report.	

Pre-Construction Compliance Report



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E44	(a)	protocols and procedures to be followed during emergency situations associated with the operation of the project (including fires, explosions and, for the purposes of this condition, vehicle collisions). The protocols and procedures are to take into account the needs of people with a disability or who may experience access problems in emergency situations;																	
E44	(b)	details of traffic management measures to be implemented during emergencies, where appropriate, to minimise the potential for escalation of the emergency;																	
E44	(c)	design and management measures to address the potential environmental impacts of an emergency situation, including measures for containment of contaminated fire-fighting water, fuel spills and gaseous combustion products;																	
E44	(d)	details of a training and testing program to ensure that-																	
E44	(d)	(i) all operational staff are familiar with the Emergency Response Plan, and																	
E44	(d)	(ii) coordination with FRNSW and NSW Police is regularly exercised; and																	
E44	(e)	provision for a simulated emergency response exercise, including the Proponent, FRNSW and NSW Police, to be conducted in accordance with the approved Emergency Response Plan on at least one occasion at least one month prior to the opening of the tunnels to traffic. The time for the exercise is to be agreed by the participants, and FRNSW and NSW Police are to be provided with at least one month prior notification of any proposed time.																	
E45		Fire simulation and hot smoke testing must be undertaken as part of the simulated emergency response exercise to be staged prior to opening of the project to traffic as required in condition E44(e). The Proponent must respond in writing to any recommendations made by FRNSW as a result of the exercise. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	6 months prior to operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV	This condition will be complied with as part of the emergency response exercise required by CoA E44. Compliance with this condition will be reported on in the Pre-Operation Compliance Report.



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E46		The Proponent must undertake annual Hazard Reviews of the project for the first five years of operation. The Hazard Review must detail all hazardous incidents that have occurred during the preceding period, as per (a) to (c) below, identify safety measures required to rectify those incidents, and address any ongoing issues. The first Hazard Review must be undertaken for the first three months of operation after the opening of the project to traffic. Subsequent Hazard Reviews must be undertaken for the following nine months and thereafter twelve monthly intervals. FRNSW may also direct the Proponent to undertake a Hazard Review following any major incident in the tunnel. A Hazard Review Report , outlining the results of a Hazard Review, and any proposed additional safety measures to be implemented in response to the findings of the Hazard Review, must be submitted to FRNSW no later than one month after the review period. The Proponent must respond in writing to any recommendation made by FRNSW in relation to the findings of a Hazard Review, within such time as may be agreed by FRNSW. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT RMS CDS-JV	Hazard reviews will be undertaken for the first five years of operation in accordance with this condition. A Hazard review report will be provided to FRNSW within one month of the review taking place. Compliance with this condition will be reported on during the operational compliance reports.
E47		The Proponent must develop a Fire Engineering Brief and Fire Engineering Report to address fire and life safety in the tunnel, in consultation with FRNSW. The documents must be prepared prior to finalising the detailed design for the tunnel. The documents must outline fire protection systems and other tunnel equipment, systems, and operational protocols required for fire and smoke management. In developing the Fire Engineering Brief and Fire Engineering Report, the Proponent must undertake a detailed fire engineering study in accordance with Australian Building Codes Board codes and guides, and Fire Safety Engineering Guidelines. Detailed design of the tunnel must incorporate the design and operational measures developed in the fire engineering study to minimise the potential for, and effect of, fire and hazardous material incidents in the tunnel. The final design of the tunnel in relation to the fire and life safety features must be verified against the	N	N	N	N	N	N	N	Y	Design	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV	A Fire Engineering Brief and Fire Engineering Report will be prepared in consultation with FRNSW and in accordance with this condition, prior to finalising detailed design for the tunnel. The fire and life safety design will be verified by an Accredited Fire Engineer. Compliance with this condition will be reported on in the quarterly Construction Compliance Reports.

Pre-Construction Compliance Report



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)									
		fire engineering study in consultation with FRNSW by an Accredited Fire Engineer. The Proponent must respond in writing to any recommendation made by FRNSW in relation to the Fire Engineering Brief and Fire Engineering Report, within such time as may be agreed by FRNSW. Any outstanding concerns are to be resolved between FRNSW and the Proponent.																		
E48		Prior to the opening of the project to traffic, a full audit of the fire and life safety system as defined by the fire engineering study developed in condition E47 above must be undertaken by an Accredited Fire Engineer. The objective of the audit must be to ensure that all design and operational measures outlined in the fire engineering study have been installed, are operational, and achieve the required design criteria. The results of the audit must be submitted to FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations resulting from FRNSW review of the audit. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	N	Prior to opening	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	An independent audit of the fire and life safety system will be undertaken prior to operation, in accordance with this condition. Compliance with this condition will be reported on in the Pre-Operation Compliance Report.
E49		A detailed maintenance-testing program outlining the methods of testing the fire and life safety systems and schedule for implementation must be developed in consultation with FRNSW prior to opening of the project to traffic. The Proponent must respond in writing to any recommendations made by FRNSW. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	N	Prior to opening	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	This CoA will be complied with prior to operation of the tunnels and compliance will be reported on during the Pre-Operation Compliance Report.

Pre-Construction Compliance Report



Ref	Sub Ref	Condition of Approval	RELEVANT STAGE									Timing/phase	Secretary's Approval Required?	Date of first submission	Date of amended submission	Date of Approval	Date completed	Compliance Status	Responsibility	Comment / evidence	
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)										
E50		Maintenance testing of fire and life safety systems must be undertaken at least annually, or any other interval as required by the design engineer and to the satisfaction of FRNSW. Results of maintenance testing must be made available to FRNSW for review, and the Proponent must respond in writing to any recommendations from FRNSW to ensure the reliability of the fire and life safety systems. Any outstanding concerns are to be resolved between FRNSW and the Proponent.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	N/A	Not yet triggered	WCX M5 AT RMS CDS-JV	Maintenance testing of fire and life safety will be undertaken annually during the operational phase in accordance with this condition, and results made available for FRNSW review. Compliance with this condition will be reported on in the operational compliance reports.	
E51		Within 12 months of the commencement of operation, and at any other stage required by the Secretary, the Proponent must commission and pay the full cost of an Independent Environmental Audit of the SSI. The Independent Environmental Audit must:	N	N	N	N	N	N	N	N	N	Within 12 months of commencement of operation	N	N/A	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV	An Independent Environmental Audit will be conducted in accordance with this condition within 12 months of the commencement of operation. A copy of the audit report will be submitted to the Secretary within 60 days of completion of the audit. This condition will be addressed in the OEMP and reported on in the relevant operational compliance report.	
E51	(a)	be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been approved by the Secretary;																			
E51	(b)	include consultation with the relevant agencies and relevant councils;																			
E51	(c)	assess the environmental performance of the SSI and assess whether it is complying with the requirements in this approval, and any other relevant approvals (including any assessment, plan or program required under these approvals);																			
E51	(d)	review the accuracy of predicted environmental outcomes discussed in the documents referred to in conditions A2(b) and A2(c);																			
E51	(e)	review the adequacy of any approved strategy, plan or program required under the abovementioned approvals in (c); and																			
E51	(f)	recommend measures or actions to improve the environmental performance of the SSI, and/or any strategy, plan or program required under these approvals.																			
E51		Within 60 days of completion of the Independent Environmental Audit, or as otherwise agreed by the Secretary, the Proponent must submit a copy of the audit report to the Secretary and relevant public authorities, together with its response to any recommendations contained in the audit report.																			

Pre-Construction Compliance Report



Ref	Sub Ref	Condition of Approval	RELEVANT STAGE										Timing/phase	Secretary's Approval Required?	Date of first submission	Date of amended submission	Date of Approval	Date completed	Compliance Status	Responsibility	Comment / evidence
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	2E: C12-C14	3 (Tunnels)	Timing/phase									
E51		Notes: <ul style="list-style-type: none"> This audit team must be led by a suitably qualified and experienced auditor, and include experts in air quality, biodiversity, noise and vibration, hydrology and any other fields specified by the Secretary. The audit may be staged to suit the staged operation of the SSI. 																			

Pre-Construction Compliance Report



Appendix B: Revised Environmental Management Measures

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Traffic and transport	TT01	<p>A Construction Traffic Management and Safety Plan (CTMSP) would be prepared as part of the CEMP. The CTMSP would include the guidelines, general requirements and principles of traffic management to be implemented during construction, including:</p> <ul style="list-style-type: none"> Signage requirements (eg temporary speed restrictions, changes to the road environment, traffic management controls) Lane possession and approval process during periods of online construction (eg line marking and temporary barriers) Traffic control devices such as traffic signals A local and regional communications strategy, including methods to provide advanced notice of any major or prolonged impacts (eg leaflets and local media), and real-time information regarding current impacts (eg variable message signs, radio traffic news) Details of both the general approach to be used for access and egress to construction compounds and the specific controls required at specific locations Any specific provisions required to manage potential impacts to sensitive users, such as schools, child care centres and health facilities. Strategies to minimise impacts on on-street car parking due to construction workers. <p>The CTMSP would be prepared in accordance with Austroads Guide to Road Design (with appropriate Roads and Maritime supplements), the RTA Traffic Control at Work Sites manual and AS1742.3: Manual of uniform traffic control devices – Part 3:Traffic control for works on roads, and any other relevant standard, guide or manual.</p>	Pre-construction	Compliant	CDS-JV	<p>A Construction Traffic and Access Sub Plan (CTAMP; M5N-ES-PLN-PWD-0004) has been prepared to meet CoA D68(a) and forms a Sub-Plan (Part C) of the CEMP (M5N-ES-PLN-PWD-0001).</p> <p>The Construction Traffic and Access Management Plan (CTAMP; M5N-ES-PLN-PWD-0004) was provided OEH, DPI Water and the following councils for consultation on 3/05/2016:</p> <ul style="list-style-type: none"> City of Sydney Hurstville Marrickville (now Inner West Council) City of Botany Bay Rockdale Canterbury <p>The CTAMP was also provided to the following groups on 3/5/2016:</p> <ul style="list-style-type: none"> NSW Police NSW State Emergency Service NSW Fire and Rescue NSW Ambulance NRMA Motorcycle Council of Australia Transport Workers Union Action for Public Transport (ATP NSW) Inc Pedestrian Council of Australia Bicycle NSW Bike Sydney BikEast Inc Bike Marrickville Bike South West Bikes Botany Bay Cyclists against WestCONNex <p>The CTAMP was submitted to DP&E for approval on 31/05/16 and was approved on 27/07/16.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Traffic and transport	TT02	Construction methods and staging would be designed to minimise road closures, subject to other project constraints, and ensure that disruptions to existing traffic are minimised as much as feasible and reasonable.	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 3.2 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT03	Construction works would be carried out offline, where possible. Where offline construction is not practical, and for tie-ins between online and offline sections of the project, construction sequencing and any temporary works identified would aim to minimise user delay while providing sufficient flexibility for the selected contractor to safely and efficiently construct the project	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 3.2 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT04	Works that would significantly reduce the performance of the road network would be scheduled for periods of typically lower traffic volumes where feasible and reasonable.	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 5.2 of the Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT05	Work areas would be isolated from general traffic using temporary safety barriers where possible.	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 4 and Appendix I which includes drawings of the layout of the isolation procedure of work areas of the Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT06	Temporary closed-circuit television (CCTV) and Variable Message Signs (VMS) would be provided at the outset of construction to link with the existing Transport Management Centre (TMC) network to facilitate monitoring and management of traffic impacts	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 8.14 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT07	Traffic volume data would be analysed to identify capacity requirements, assess the potential impact of lane occupancies on traffic flows, plan lane occupancies to minimise the work area, and identify the best time to minimise inconvenience to road users. Restrictions and obstructions would be limited, road capacities maximised and peak traffic periods avoided where possible	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 5.1 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT08	Impacts on pedestrian paths and cycle lanes would be minimised, and alternatives provided during construction where practical and safe to do so	Construction	Compliant	CDS-JV	Refer Section 6.10 and 6.11 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT09	Impacts to bus stops would be identified and alternative locations and access would be provided. This would be undertaken in consultation with Transport for NSW and the relevant bus service provider	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 6.9 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT10	Local road closures would be managed and adequate property access maintained. This would be undertaken in consultation with Roads and Maritime, local councils and property owners likely to be impacted	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 6.3 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Traffic and transport	TT11	A <u>spoil management plan</u> would be prepared with subsequent monitoring of heavy vehicle and haulage routes to ensure compliance and minimise impact on local roads off the arterial road network	Construction	Compliant	CDS-JV	This requirement has been addressed in Spoil Management Plan (M5N-PM-PLN-PWD-0002) and Section 6.7, 6.20 and appendix H of the Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004)
Traffic and transport	TT12	A <u>road dilapidation report(s)</u> would be prepared identifying existing conditions of local roads and mechanisms to repair damage to the road network caused by heavy vehicle movements associated with the project.	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 6.4 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004).
Traffic and transport	TT13	Road occupancy licences would be obtained where required.	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 5.2 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004). ROLs will be obtained where required in accordance with RMS procedure guidelines.
Traffic and transport	TT14	The CTSMP would be developed in consultation with local emergency services and procedures would be implemented to maintain priority access and a safe environment for emergency vehicles to travel through construction areas. The CTSMP would include measures to keep emergency services informed of the staging and progress of construction works.	Construction	Compliant	CDS-JV	This requirement has been addressed in Section 9 of Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004). The CTASP was provided to the following emergency services on 3/5/16 for consultation: <ul style="list-style-type: none"> · NSW Police · NSW State Emergency Service · NSW Fire and Rescue · NSW Ambulance
Traffic and transport	TT15	The location of the car park and site office associated with the Kingsgrove North construction compound (C1) would be further refined with alternatives considered during construction planning, including the opportunity for the use of the existing Garema Circuit carpark	Design	Compliant	CDS-JV	Consideration of parking for the Kingsgrove North construction compound is provided in Section 6.16 of the Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004). The Garema Circuit carpark is intended to be used during the establishment phase as described in Section 5.7 of the Ancillary Facilities Management Plan (AFMP; M5N-ES-PLN-PWD-0026; submitted to DPE 20/05/16).
Traffic and transport	OpTT01	A road safety audit would be undertaken by a qualified auditor(s) as part of the detailed design, and again immediately prior to project opening, to examine the design from a road safety perspective and identify potential safety issues. This process would be undertaken in accordance with the Roads and Maritime Accident Reduction Guide Part 2: Road Safety Audits (RTA, 2005a).	Design	N/A	CDS-JV	This REMM is applicable to the operational phase of the project and will therefore be reported on in a subsequent quarterly construction compliance report.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Traffic and transport	OpTT02	An operational traffic review would be conducted 12 months following the commencement of operation to confirm the operational traffic impacts of the project on surrounding arterial roads and major intersections. The operational traffic review would be undertaken by a suitably qualified traffic specialist that is independent of the design and traffic studies undertaken as part of the environmental impact statement. The operational traffic review would include (but is not limited to) an assessment of the level of service at major intersections on local roads around the St Peters interchange, the King Georges Road interchange and changes in traffic levels on parallel arterial roads, such as Stoney Creek Road.	Operation	N/A	WCX M5 AT	The operational traffic review is required to be undertaken 12 months after opening of the project and will therefore be reported against in the pre-operation compliance report.
Traffic and transport	OpTT03	During detailed design, the ability to further reduce the width of Euston Road would be investigated through: <ul style="list-style-type: none"> Further reductions in the lane widths and/or Minimising the extent of, or need for, the central turning lane along Euston Road. This investigation would consider the changes to network performance, road safety for all users (including pedestrians), implications for access to properties along Euston Road, amenity improvements for pedestrians / cyclists, benefits to reduced impacts on Sydney Park and vegetation, and opportunities for additional landscaping.	Design	N/A	CDS-JV	The design for the Local Roads Upgrade works is ongoing. Therefore this REMM will be reported against in a subsequent construction compliance report.
Air quality	AQ01	Develop and implement a <u>Construction Air Quality Management Plan</u> in consultation with the NSW EPA. Any measures that are required will differ depending on the activities occurring, and so will need to be tailored for each individual site.	Pre-construction	Compliant	CDS-JV	A Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002) has been developed and forms a Sub-Plan of the CEMP (Part C). The Project Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002) was provided to OEH, DPI Water and the following councils for consultation on 3/05/2016: <ul style="list-style-type: none"> City of Sydney Hurstville Marrickville (now Inner West Council) City of Botany Bay Rockdale Canterbury The CAQSP was prepared and submitted to DP&E on 27 May 2016 and was approved by DP&E on 4/7/2016.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Air quality	AQ02	Carry out regular site inspections to monitor compliance with the Construction Air Quality Management Plan, record inspection results.	Construction	Compliant	CDS-JV	This REMM is addressed in Section 7 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 4/07/16). Weekly environmental inspections will be completed during the establishment phase of the project, to monitor compliance with the CAQSP.
Air quality	AQ03	Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.	Pre-construction	Compliant	CDS-JV	Refer Section 2.4.4 and 4.5.3 of the Community Communication Strategy (M5N-CS-PLN-PWD-0001), approved by DP&E on 27/07/16.
Air quality	AQ04	Display the name and contact details of person(s) accountable for air quality and dust issues at the boundaries of each construction area. This may be the environment manager/engineer or the site manager. Display the head or regional office contact information.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6 (AQ7) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Signage will be erected at the boundary fencing of the construction compound sites during establishment.
Air quality	AQ05	Plan site layout so that machinery and dust causing activities are located away from receivers, as far as is possible.	Design Construction	Compliant	CDS-JV	Refer Section 6 (AQ2) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Weekly environmental inspections will be completed during the establishment phase of the project, to monitor compliance with the AQMP and this REMM.
Air quality	AQ06	Erect solid screens or barriers around dusty activities or the site boundary.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ11 and AQ13) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Personnel will receive inductions and ongoing training via toolbox talks to ensure awareness of dust management measures.
Air quality	AQ07	Ensure, where reasonable and feasible, that appropriate control methods are implemented to minimise dust emissions from the project site.	Construction	Compliant	CDS-JV	Addressed in Section 6 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16) and the Manage Air Quality Procedure (M5N-ES-PRC-PWD-0040).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Air quality	AQ08	Remove materials that have a potential to produce dust from site as soon as possible, unless being re-used on site. If they are being re-used on-site, cover as soon as practicable.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ4) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Weekly environmental inspections will be completed during the establishment phase of the project, to monitor compliance with the CAQSP and this REMM. Toolbox talks will ensure ongoing awareness of this issue will be maintained.
Air quality	AQ09	Impose and signpost a maximum-speed-limit of 20 km/h on surfaced and unsurfaced haul roads and in work areas.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ32) of the (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ11	Where practicable, only use cutting, grinding or sawing equipment fitted or in conjunction with suitable dust suppression techniques such as water sprays or local extraction, (e.g. suitable local exhaust ventilation systems).	Construction	Compliant	CDS-JV	Refer Section 6 (AQ29) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ12	Ensure an adequate water supply on the site for effective dust/particulate matter suppression/mitigation, using non-potable water where possible and appropriate.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ15) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Temporary water lines will be installed and used during the demolition of properties.
Air quality	AQ13	Where possible, use enclosed chutes and conveyors and covered skips.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ30) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ14	Minimise drop heights from conveyors, loading shovels, hoppers and other loading or handling equipment and use fine water sprays on such equipment wherever appropriate.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ31) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ15	Ensure equipment is readily available on site to clean any dry spillages, and clean up spillages as soon as reasonably practicable after the event using appropriate cleaning methods.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ16) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ16	Avoid scabbling (roughening of concrete surfaces) if possible.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ16) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Air quality	AQ17	Stockpiles would be located outside overland flowpaths, and where left exposed and undisturbed for longer than 28 days, would be finished and contoured to minimise loss of material in flood or rainfall events. Materials which require stockpiling for longer than 28 days would be stabilised by compaction, covering with anchored fabrics, or seeded with sterile grass where appropriate.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ24) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16) and Section 7.1 of the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16).
Air quality	AQ18	Where a stockpile, eg sand or fine aggregate, has the potential to generate dust, control measures would be implemented. These would include wetting the stockpile, covering the stockpile or contouring the stockpile.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ25) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ19	Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ33) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ20	For smaller supplies of fine powder materials ensure bags are sealed after use and stored appropriately to prevent dust.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ34) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ21	Use water-assisted dust sweeper(s) on the access and local roads, to remove, as necessary, any material tracked out of the site.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ35) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16) Street sweepers will be used on the project at compounds as required to remove material from roads.
Air quality	AQ22	Avoid dry sweeping of large areas.	Construction	Compliant	CDS-JV	This is addressed in Section 6 (AQ18) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ23	Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	Construction	Compliant	CDS-JV	This is addressed in Section 6 (AQ36) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ24	Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.	Construction	Compliant	CDS-JV	Refer Table 10, Section 7 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Inspections of working areas will be undertaken daily, weekly and monthly for the duration of the project.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Air quality	AQ25	Record all inspections of haul routes and any subsequent action in a site log book.	Construction	Compliant	CDS-JV	Refer Table 10, Section 7 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Inspections of working areas will be undertaken daily, weekly and monthly for the duration of the project.
Air quality	AQ26	Where reasonable and feasible, haul roads will be maintained with water carts and graders, and the condition of the roads will be monitored.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ37) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ27	Implement site exit controls (e.g. wheel washing system and rumble grids) to dislodge accumulated dust and mud prior to leaving the site where reasonably practicable.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ38) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ28	Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ39) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ29	Access gates to be located at least 10 metres from receivers where possible.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ39) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ30	Ensure all construction vehicles comply with their relevant emission standards.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ40) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ31	Ensure that, where practicable, engine idling is minimised when stationary.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ41) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ32	Avoid the use of diesel or petrol powered generators and use mains electricity or battery powered equipment where practicable.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ42) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ33	Promote and encourage sustainable travel (public transport, cycling, walking, and car-sharing).	Construction	Compliant	CDS-JV	Refer Section 6 (AQ43) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). During the project on-boarding process this REMM is discussed with all employees, and is reinforced during the project induction
Air quality	AQ34	No bonfires and burning of waste materials.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ44) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Air quality	AQ35	Soft strip inside buildings before demolition (retaining walls and windows in the rest of the building where possible, to provide a screen against dust).	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6 (AQ20) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ36	Ensure effective water suppression is used during demolition operations. Hand held sprays are more effective than hoses attached to equipment as the water can be directed to where it is needed. In addition high volume water suppression systems, manually controlled, can produce fine water droplets that effectively bring the dust particles to the ground and may be more useful for covering larger areas.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6 (AQ21) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Temporary water lines have been installed and used during the demolition of properties.
Air quality	AQ37	Minimise explosive blasting where possible during demolition, using appropriate manual or mechanical alternatives.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6 (AQ22) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ38	Bag and remove any biological debris or other hazardous materials such as asbestos, damp down such material before demolition.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6 (AQ23) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ39	Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ26) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ40	Use hessian, mulches or tackifiers where it is not possible to re-vegetate or cover with topsoil, as soon as practicable.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ27) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ41	Where possible, only remove any cover for exposed areas in small areas during work and not all at once.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ28) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ42	Regular communication with other high risk construction ancillary facilities within 500 metres of the site boundary, to ensure plans are co-ordinated and dust and particulate matter emissions are minimised. It is important to understand the interactions of the off-site transport/deliveries which might be using the same strategic road network routes.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6 (AQ1) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	AQ43	Undertake regular on-site and off-site inspection, where receivers are nearby, to monitor dust, record inspection results.	Construction	Compliant	CDS-JV	Refer Table 10, Section 7 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Air quality	AQ44	Record all dust and air quality complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner, and record the measures taken.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ8) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16) and Sections 4.9.7 and 4.9.8 of the Community Communication Strategy (M5N-CS-PLN-PWD-0008; approved 27/07/16).
Air quality	AQ45	Make complaints available to the Secretary upon request.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ8) and Table 11 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16) – external reporting requirements, and Section 4 of the Community Communication Strategy (M5N-CS-PLN-PWD-0008; approved 27/07/16).
Air quality	AQ46	Record any exceptional incidents that cause dust and/or air emissions, either on- or offsite, and the action taken to resolve the situation in the log book.	Construction	Compliant	CDS-JV	Refer Section 6 (AQ6) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).
Air quality	N / A	Environmental management measures that are available for improving tunnel-related air quality are categorised as follows: <ul style="list-style-type: none"> · Tunnel design · Ventilation design and control · Air treatment systems · Emission controls and other measures · Monitoring. Refer to Section 10.10.2 of the EIS for detailed discussion of these categories.	Design / Operation	N/A	CDS-JV	CDS-JV has referred to Section 10.10.2 of the EIS when preparing the design of the Project.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Human health	HH1	<p>Affected households would be provided access to the following services to support them in the land acquisition process and relocation (including renters). These services include access to a free counselling service; WestConnex Assist and assistance from relocation support teams. Additional services which could include:</p> <ul style="list-style-type: none"> · Assistance in identifying alternative properties · Independent social support for households relocating within the area and to other areas, providing contacts and information in regard to social services, facilities and logistical matters (eg logistics of moving including required administrative tasks) · Access to financial advice for affected households · First language support for households within English as a second language. 	Pre-construction	Compliant	WCX M5 AT	<p>The services available to support residents who are being relocated as a result of property acquisition include:</p> <ul style="list-style-type: none"> • The WestConnex Assist counselling service - 'Converge' – which is the counselling service provided by WCXM5 AT Pty Ltd. It is a free, independent and confidential counselling service and is still available for use for relocated persons • Provision of an independent service to vulnerable households to assist with their relocation • Community relations support to respond to community issues, concerns and requests and to offer a translation service to households for whom English is a second language • RMS have contacted residential and commercial tenants who are currently renting properties to be acquired for the project, to discuss timeframes for acquisition and compensation (where applicable). • Residents who are having their properties acquired or are relocating due the New M5 project (e.g. tenants) have been advised to contact WestConnex directly to discuss available support services. • An interpreting service is provided.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Noise and vibration	NV1	<p>A construction noise and vibration management plan(s) will be prepared and implemented consistent with the requirements of the <i>Interim Construction Noise Guideline</i> (DECC, 2009), and will include the following:</p> <ul style="list-style-type: none"> Identification of nearby residences and other sensitive land uses Description of approved hours of work Description and identification of construction activities, including work areas, equipment and duration Description of what work practices (generic and specific) will be applied to minimise noise and vibration A complaints handling process Noise and vibration monitoring procedures Overview of community consultation required for identified high impact works. 	Pre-construction	Compliant	CDS-JV	<p>A Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5 CNVMP) has been developed and forms a Sub-Plan (Part C) to the CEMP. The CNVMP was provided to OEH, DPI Water, EPA (for Out-of-hours Protocol) and the following councils for consultation on 3/05/2016:</p> <ul style="list-style-type: none"> City of Sydney Hurstville Marrickville (now Inner West Council) City of Botany Bay Rockdale Canterbury <p>The CNVMP was submitted to DP&E for approval on 27 May 2016. The CNVMP has been updated to address DP&E comments and the most recent revision was provided to DP&E on 7/7/16.</p>
Noise and vibration	NV2	Induction and training will be provided to relevant staff and subcontractors outlining their responsibilities with regard to noise.	Construction	Compliant	CDS-JV	Refer Section 1.4 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV3	Noisy activities that cannot be undertaken during standard construction hours will be scheduled as early as possible during the evening and/or night time periods.	Construction	Compliant	CDS-JV	This is addressed in Section 3.2.1 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV4	Permanent noise barriers will be scheduled for completion as early as possible in order to minimise construction noise.	Construction	Compliant	CDS-JV	Refer Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV5	Property treatments identified for the operational phase of the project will be considered for installation before or early in the construction period, where they would improve noise levels.	Construction	Compliant	CDS-JV	Refer to Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Noise and vibration	NV6	Acoustic sheds will be erected at the Kingsgrove North (C1), Bexley Road North (C4) and Bexley Road South (C5) construction compounds, to mitigate noise generated by tunnelling support activities. The noise attenuation requirements for these acoustic sheds will be reviewed and confirmed during detailed design.	Pre-construction	Compliant	CDS-JV	This is addressed in Section 6 and Section 4.1.6, of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16). This is also addressed in the detailed mitigation measures in individual Construction Noise and Vibration Impact Statements (CNVIS) reports.
Noise and vibration	NV7	Temporary acoustic hoardings will be installed at the Kingsgrove North (C1), Commercial Road (C3), Bexley Road North (C4), Bexley Road South (C5), Bexley Road East (C6), Arncliffe (C7), the Marsh Street ponds site, Canal Road (C8) and Campbell Road (C9) construction compounds. The design and location of acoustic hoardings will be confirmed during detailed design.	Pre-construction	Compliant	CDS-JV	This is addressed in Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16), the Construction Noise and Vibration Impact Statements and the Temporary Noise Barrier Strategies required under CoA D20 (Kingsgrove strategy approved 23/6/16).
Noise and vibration	NV8	When working adjacent to schools, particularly noisy activities will be scheduled outside normal school hours, where practicable.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV9	Where feasible and reasonable, equipment with directional noise emissions will be oriented away from sensitive receivers.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV10	Verification checks on the noise emissions of plant and machinery will be conducted.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV11	Ongoing noise monitoring will be undertaken during construction at sensitive receivers during critical periods to identify and assist in managing high risk noise events.	Construction	Compliant	CDS-JV	Refer Section 7 and Appendix G of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16) which outlines specific methods for undertaking noise monitoring during the construction phase of the project.
Noise and vibration	NV12	Reversing of equipment will be minimised to prevent nuisance caused by reversing alarms. Use of non-tonal reversing alarms ('quackers') will be implemented to further reduce the nuisance caused by reversing alarms.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Noise and vibration	NV13	Loading and unloading will be carried out away from sensitive receivers, where practicable.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV14	Deliveries will be carried out during standard construction hours where feasible and reasonable.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV15	Additional noise mitigation measures during out of hours works will be determined on a case-by-case basis using individual receiver predictions, and may consist of offers of alternative accommodation, monitoring, individual briefings, letter box drops, project specific respite offers, phone calls and specific notifications.	Construction	Compliant	CDS-JV	Refer Section 6.4 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV16	Respite periods (eg one hour respite for every three hours of continuous construction activity) will be scheduled for high noise impact works where appropriate.	Construction	Compliant	CDS-JV	This is addressed in Section 3.2.3 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV17	Truck drivers will be advised of designated vehicle routes, parking and queuing locations, acceptable delivery hours and other relevant practices (ie minimising the use of engine brakes, and no extended periods of engine idling).	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV18	Deliveries and spoil removal will be planned to avoid queuing of trucks around construction compounds.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV19	Before the start of tunnelling or other vibration intensive works at each site, condition surveys will be undertaken on properties and structures within the preferred project corridor (the zone on the surface equal to 50 metres from the outer edge of the tunnels) and within 50 metres of surface works.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16). Building condition surveys will be undertaken on all buildings located within the determined minimum working distance or buffer zone prior to commencement of activities with the potential to cause property damage. Condition surveys will also be undertaken at potentially affected properties after the works are completed.
Noise and vibration	NV20	The safe working distances will be complied with where feasible and reasonable. This will include the consideration of smaller equipment when working close to existing structures.	Construction	Compliant	CDS-JV	Refer Section 6.3 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16), and Appendix G 3.4, which specifies the methods for undertaking vibration monitoring during the construction phase of the project.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Noise and vibration	NV21	If vibration intensive works are required within the safe working distances, vibration monitoring or attended vibration trials will be undertaken at the outset of these works to ensure that levels are within relevant criteria.	Construction	Compliant	CDS-JV	Refer Appendix G 3.4 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16), which specifies the methods for undertaking vibration monitoring during the construction phase of the project.
Noise and vibration	NV22	Building condition surveys of potentially affected structures will be completed both before and after the works to identify existing damage and any damage due to the works.	Pre-construction Post-construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV23	Vibration intensive construction works will be confined to the less sensitive daytime period (9.00 am to 12.00 pm and 2.00 pm to 5.00 pm) as far as reasonably practicable.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV24	A detailed ground-borne noise assessment will be undertaken following further geotechnical investigations. This will include developing the vibration site law for the project.	Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV25	Noise and vibration mitigation methods specific to blasting will be incorporated into the construction noise and vibration management plans where required.	Construction	Compliant	CDS-JV	Refer section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted 27/05/16).
Noise and vibration	NV26	Blasting with the potential to generate an impact at the surface will be restricted to standard daytime hours (except where approved by the relevant authority). Blasting would occur between 9:00am and 5:00pm, up to five days per week (Monday to Friday) and on Saturdays (9:00 am to 1:00pm). Blasts would be limited to one single detonation in any one day per receiver group, unless otherwise agreed by the NSW EPA through consultation on the Construction Noise and Vibration Management Plan.	Construction	Compliant	CDS-JV	This is addressed in Section 3.2.1 and 3.2.7 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16). If blasting is proposed, potential vibration and air blast overpressure impacts generated through blasting will be managed through a Blast Management Strategy required under CoA D28. The Blast Management Strategy would be submitted to DPE prior to any blasting.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Noise and vibration	NV27	Site investigations will be conducted prior to production blasting to define suitable blast sizes to comply with project blasting noise and vibration criteria.	Construction	Compliant	CDS-JV	This is addressed in Sections 4.1.7 and 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16). If blasting is proposed, this requirement would be addressed in further detail in a Blast Management Strategy required under CoA D28. The Blast Management Strategy would be submitted to DPE prior to any blasting.
Noise and vibration	NV28	Dilapidation studies of nearby receiver buildings will be undertaken where the potential for exceedances of the blasting criteria is identified.	Pre-construction	N/A	CDS-JV	If blasting is proposed, this requirement would be addressed in a Blast Management Strategy required under CoA D28. The Blast Management Strategy would be submitted to DPE prior to any blasting. Refer Sections 4.1.7 and 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16).
Noise and vibration	NV29	Where the predicted levels exceed the noise or vibration criteria for blasting, alternative construction methods, such as penetrating cone fracture, will be utilised.	Construction	N/A	CDS-JV	If blasting is proposed, this requirement would be addressed in a Blast Management Strategy required under CoA D28. The Blast Management Strategy would be submitted to DPE prior to any blasting. This requirement is addressed in Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16).
Noise and vibration	NV30	Community consultation protocols for sensitive receivers likely to be impacted by construction activities such as blasting, vibration and noise will be prepared and implemented.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6.2 in the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16), and Section 4 of the Community Communication Strategy (approved 27/7/16).
Noise and vibration	NV31	The implementation of a left in and right out arrangement for heavy vehicles at the Garema Circuit access point to Kingsgrove North construction compound (C1) would be considered during construction planning to restrict heavy vehicles to using only the eastern side of Garema Circuit.	Pre-construction Construction	N/A	CDS-JV	CoA D46 does not permit the use of Garema Circuit during construction without approval of the Secretary, DPE. This REMM would be considered if DPE approval is sought and obtained for the use of Garema Circuit during construction.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Noise and vibration	OpNV01	At locations where residual impacts remain after all feasible and reasonable approaches have been exhausted, noise mitigation in the form of acoustic treatment of existing individual dwellings will be considered.	Pre-construction Construction	Compliant	CDS-JV	Noise mitigation for residual impacts will be considered as described in Section 6.5 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16). Details will be provided in the relevant CNVIS.
Noise and vibration	OpNV02	Operational traffic noise will be monitored at sensitive receivers between six months and one year after opening. If the traffic noise levels are above the predicted levels, consideration of additional feasible and reasonable mitigation measures will be undertaken.	Operation	N/A	WCX M5 AT	This requirement relates to the operational phase and will be reported on in the pre-operation compliance report and subsequent operational compliance reports required under CoA A14.
Noise and vibration	OpNV03	Operational fixed facilities will be designed to meet project specific noise criteria derived in accordance with the <i>NSW Industrial Noise Policy</i> .	Design	Compliant	CDS-JV	Concept design has been informed by the NSW Industrial Noise Policy. Design of operational fixed facilities is ongoing and will specify the operational plant requirements and attenuation measures. The design and procurement processes will include assessment of the proposed plant options against operational noise requirements in the INP.
Land use and property	LP01	The relevant property owners would be consulted in relation to the acquisition of properties required to facilitate construction of the project. Acquisition would be undertaken consistently with the principles in the Land Acquisition Information Guide (Roads and Maritime, 2014b) and the <i>Land Acquisition (Just Terms Compensation) Act 1991</i> (NSW).	Pre-construction	Compliant	WCX M5 AT	Land acquisition for the New M5 project has been undertaken in accordance with the Roads and Maritime Services <i>Land Acquisition Information Guide</i> (Roads and Maritime 2014) and the <i>Land Acquisition (Just Terms Compensation) Act 1991</i> (NSW).
Land use and property	LP02	Prior to any impact to access, alternative arrangements would be negotiated with the affected parties in order to enable continued access and to minimise disruption as much as reasonably possible.	Pre-construction	Compliant	CDS-JV	Impacts to access will be minimised during establishment and construction of the project. Where alternative access arrangements are required, consultation will be undertaken with affected parties in accordance with Sections 6.17 and 9 of the Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004; approved 27/07/16) and the Community Communication Strategy (M5N-CS-PLN-PWD-0008; approved 27/07/16).
Land use and property	LP03	Affected property owners and community facilities would be provided with advanced notification of relevant project schedules, construction works and changes to access arrangements.	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 5.2 and Appendices 3 and 4 of the Community Communication Strategy (M5N-CS-PLN-PWD-0008; approved 27/07/16), which outlines communication activities and tools to be implemented for the project.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Land use and property	LP04	Community updates would be provided on changes to the local road network within the project area during construction.	Pre-construction Construction	Compliant	CDS-JV	Section 7 of the Community Communication Strategy (M5N-CS-PLN-PWD-0008; approved 27/07/16) addresses communication tools and participation activities.
Land use and property	LP05	Appropriate signage would be provided advising of walking track closures and alternative walking routes.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.10 of the Construction Traffic and Access Sub Plan (M5N-ES-PLN-PWD-0004; approved 27/07/16).
Land use and property	LP06	A <u>Settlement Monitoring Plan</u> would be prepared that would provide details on: <ul style="list-style-type: none"> Location of monitoring points Duration of monitoring Data collection and review Roles and responsibilities for review of data Triggers and actions for corrective actions. 		Compliant		The Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530) has been developed and details the locations, durations and frequency for monitoring programs for settlement. The related Acceptable Effects Report contains trigger values and management responses for these monitoring programs. This is described in Section 1.3 of the Construction Soil and Water Quality Sub-plan (M5N-PM-PLN-PWD-0005; approved 15/07/16).
Land use and property	LP07	Building condition surveys would be undertaken on properties and structures within the preferred project corridor (the zone on the surface equal to 50 metres from the outer edge of the tunnels) and within 50 metres of surface.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP; submitted to DPE 27/05/16). Building condition surveys will be undertaken on all buildings located within the determined minimum working distance or buffer zone prior to commencement of activities with the potential to cause property damage. Condition surveys will also be undertaken at potentially affected properties after the works are completed.
Land use and property	LP08	Services in locations where differential / angular settlement is anticipated would be identified. A monitoring plan, triggers and actions would be agreed with the utilities owner prior to potential impacts occurring.	Pre-construction Construction	Compliant	CDS-JV	The Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530) has been developed and details the locations, durations and frequency for monitoring programs for settlement. The related Acceptable Effects Report contains trigger values and management responses for these monitoring programs. Consultation with utility owners is ongoing during the design phase in relation to potential impacts on services.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Land use and property	LP09	A monitoring program, undertaken as part of the Settlement Management Plan, would be undertaken to ensure that settlement has stabilised before monitoring is completed.	Pre-construction Construction	Compliant	CDS-JV	The Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530) has been developed and details the locations, durations and frequency for monitoring programs for settlement.
Land use and property	LP10	Sites directly affected by construction works, including demolition of structures, would consider the potential for, and where necessary treat, termites consistent with AS 4349.3 2010 Inspection of Buildings – Timber Pest Inspections and AS 3660.2 2000 Termite Management In and Around Existing Buildings and Structures.	Pre-construction Construction	Compliant	CDS-JV	Where termites are identified through environmental inspections, fauna audits, property surveys, community interaction or other means they will further investigated in accordance with AS 4349.3 2010 Inspection of Buildings – Timber Pest Inspections and be treated in accordance with AS 3660.2 2000 Termite Management In and Around Existing Buildings and Structures.
Land use and property	OpLP01	Land acquisition for the project would be undertaken consistently with the principles in the Land Acquisition Information Guide (Roads and Maritime, 2014b) and the <i>Land Acquisition (Just Terms Compensation) Act 1991</i> (NSW).	Pre-construction	Compliant	WCX M5 AT	Land acquisition for the New M5 project has been undertaken in accordance with the Roads and Maritime Services <i>Land Acquisition Information Guide</i> (Roads and Maritime 2014) and the <i>Land Acquisition (Just Terms Compensation) Act 1991</i> (NSW).
Land use and property	OpLP02	Property accesses that are affected as a result of the project would be reinstated in consultation with the affected landowners including relocation if required.	Pre-construction	N/A	WCX M5 AT	This requirement is addressed in Section 6.17 of the Construction Traffic and Access Sub-plan (M5N-ES-PLN-PWD-0004; approved 27/07/16). This requirement will be reported on in the quarterly construction compliance reports and the pre-operation compliance report.
Visual impacts and urban design	V01	Existing vegetation around the perimeter of the construction compounds would be retained where feasible and reasonable, particularly: <ul style="list-style-type: none"> Vegetation surrounding the Bexley Road East construction compound, particularly along the boundary between residential properties and the compound along the northern and eastern boundaries Mature trees along the north-west (Marsh Street) and south-west boundaries of the Arncliffe construction compound site Mature trees and vegetation along the boundary of Sydney Park along Campbell Road and Barwon Park Road. 	Pre-construction Construction	Compliant	CDS-JV	Refer to Sections 6.12 and 6.16 and Appendix B of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	V02	Landscape planting would use fast growing species where reasonable and feasible. This would soften views of construction sites, particularly for compounds located within public recreational spaces.	Construction	Compliant	CDS-JV	<p>Refer to Appendix B of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).</p> <p>This requirement will also be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	V03	Revegetation and landscaping would be undertaken progressively.	Construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	V04	Temporary noise barriers would be erected early within the site establishment phase where required to minimise noise impacts and provide visual screening.	Pre-construction Construction	Compliant	CDS-JV	All temporary noise barriers will be installed in accordance with the Temporary Noise Barrier Strategies required by CoA D20, (Kingsgrove Strategy approved 23/06/16). Temporary noise barriers associated with construction compounds will be installed early during site establishment as described in Section 5.3 and Appendix B of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
<i>Visual impacts and urban design</i>	V05	Temporary noise barriers would be designed to include painted surface and project information / logo to deter graffiti and reduce the scale of noise barriers, particularly adjacent to residential areas or public open space.	Pre-construction Construction	Compliant	CDS-JV	Temporary noise barriers are being designed in consultation with directly affected property owners in accordance with CoA D20. This requirement is addressed in Section 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
<i>Visual impacts and urban design</i>	V06	Site hoardings and fencing would be regularly maintained, including the prompt removal of graffiti.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Appendix B of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
<i>Visual impacts and urban design</i>	V07	Acoustic sheds would be designed to minimise noise impacts and provide visual screening to be visually recessive, such as the use of mid toned colours and materials to minimise the intrusiveness and potential glare of the sheds.	Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
<i>Visual impacts and urban design</i>	V08	During detailed design, the Roads and Maritime would liaise with the Civil Aviation Safety Authority to assess the potential for impacts of night lighting from the construction of the project on Sydney Airport operations. Mitigation measures would then be developed as required.	Design	Compliant	WCX M5 AT	Consultation is ongoing with the Civil Aviation Safety Authority and Sydney Airport Corporation to address any impacts of the project on Sydney Airport operations. Consultation is scheduled to continue during construction to maintain open dialogue.
<i>Visual impacts and urban design</i>	V09	Cut-off or and directed lighting would be used within and outside of construction compounds with lighting location and direction considered to ensure glare and light spill are minimised.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
<i>Visual impacts and urban design</i>	V10	The lighting design for shared paths located within the M5 Linear Park impacted by the project or located adjacent to compounds would be designed to minimise light spill to adjoining residential properties while maintaining a safe night time environment for path users (eg lighting position below the height of the fence line).	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Visual impacts and urban design	V11	A signage strategy would be developed during detailed design for temporary wayfinding and safety. Potentially affected receivers would be consulted on the final signage in relation to the location and associated impacts.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Sections 8.8 and 8.9 of the Construction Traffic and Access Sub-plan (M5N-ES-PLN-PWD-0004; approved 27/07/16).
Visual impacts and urban design	V12	Elements within construction sites would be located to minimise visual impacts as far as feasible and reasonable, for example, locating equipment back from site boundaries.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
Visual impacts and urban design	V13	Opportunities would be investigated to maximise the separation distances as far as reasonable and feasible: <ul style="list-style-type: none"> Between the Kingsgrove North construction compound to the adjoining residential areas to reduce shading and visual impacts Between the Bexley Road North and Bexley Road East construction compounds and adjoining residential areas to reduce shading and visual impacts. 	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).
Visual impacts and urban design	V14	Opportunities would be investigated to provide an alternative southern cycle route for the length of the existing shared path impacted by the western surface works.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Section 6.11 of the Construction Traffic and Access Sub-plan (M5N-ES-PLN-PWD-0004; approved 27/07/16).
Visual impacts and urban design	OpV01	Vegetated batters would be limited to 1:3 and 1:4 where possible in order to maximise the impact of vegetation on these batters and minimise maintenance.	Pre-construction Construction	Compliant	CDS-JV	This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017. This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	OpV02	Chain link fencing for sites would only be used where these would not be viewed by sensitive receivers, such as residents and users of recreational space. At these locations, high quality fencing suitable for parks and public spaces would be considered.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	OpV03	Where large areas of hardstand are or structures are designed, such as carparks, consideration of shade trees within these spaces would be considered where reasonable and feasible to soften views and provide shade and visual amenity.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	OpV04	Pedestrian and shared paths would be aligned away from residential property boundaries where public open space adjoins residential boundaries.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	OpV05	Planting areas would be maximised, where feasible, between public open space and infrastructure, and would include taller screening vegetation (at the Bexley Road South motorway operations complex (MOC2) between the built form and the M5 Linear Park shared path for example).	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	OpV06	<p>A final <u>urban design and landscape plan</u> would be prepared in consultation with the New M5 Urban Design Review Panel, local councils within the project corridor and the local community. The Plan shall include (but not limited to):</p> <ul style="list-style-type: none"> The architectural treatment of the ventilation facilities, which would be informed by the functional requirements and the design principles detailed in the New M5 Urban Design Report. Landscape plans and final plant species for the western surface works, Bexley Road motorway operations complex, Arncliffe motorway operations complex, the St Peters interchange and local road upgrades The artwork strategy for the Kindilan underpass Outcomes of consultation with NSW Heritage Office with respect to integration of heritage interpretation into the urban design of the Alexandra Canal bridge crossings and St Peters interchange. The urban design of Alexandra Canal bridge crossings would also consider the Alexandra Canal Heritage Conservation Plan (NSW Architect's Office, 2004) Consideration of the outcomes of the Safety in Design review of the project. 	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	OpV07	<p>The design of the noise attenuation at the western surface works would be confirmed during detailed design and in consultation with the local community. This may consist of noise mounds and barriers (or a combination of both) and with consideration to the provision of accessible open space at Beverly Grove Park and a landscaped outlook.</p>	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	OpV08	Landscaping at the Bexley Road motorway operations complex would consider opportunities to complement the existing topography of the built site as well as the adjacent Wolli Creek bushland.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	OpV09	Reasonable and feasible measures to use landscaping to screen or filter views of the Arncliffe motorway operations complex from residential areas to the west would be implemented.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	OpV10	Opportunities to maximise the green canopy throughout the local road upgrades at Peters with tree planting in medians where safety barriers and / or speed limits permit would be explored during detailed design, and implemented where reasonable and feasible.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	OpV11	During detailed design, the Roads and Maritime would liaise with the Civil Aviation Safety Authority to assess the potential for impacts of night lighting from the operation of the project on Sydney Airport operations. Mitigation measures would then be developed as required.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Visual impacts and urban design</i>	OpV12	Lighting design within motorway operations complexes, roadways, and on elevated pedestrian bridges would minimise the impacts of lighting to surrounding areas (particularly residential areas), for example through the use of cut-off, directed lighting and landscaping to minimise light spill and glare. This includes consideration of residences along Campbell Road.	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>
<i>Visual impacts and urban design</i>	OpV13	Opportunities to further minimise the overshadowing and visual impacts to the 2-34 Campbell Road terraces by the Campbell Road pedestrian / cycle bridge would be explored during detailed design	Pre-construction	Compliant	CDS-JV	<p>This requirement will be addressed in the Urban Design and Landscape Plan required by CoA B61 and B62. Work on the project urban design has commenced and is being prepared in consultation with the Urban Design Review Panel. Based on the comments provided during consultation the design will be reviewed and updated. The target date for final UDLP submission (integrating urban design for all areas of the project) to DPE for approval is August 2017.</p> <p>This REMM relates to the pre-construction and detailed design phase, in particular for permanent built works that will be visible and are subject to the UDLP. Compliance against this REMM will therefore continue to be reported on in the quarterly compliance reports during development of the UDLP.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Social and economic</i>	SEO1	A <u>community involvement plan</u> would be implemented to provide timely, regular and transparent information about changes to access and traffic conditions, details of future work programs and general construction progress throughout the construction phase of the project. Information would be provided in a variety of ways including letter box drops, media releases, internet site, signage and a hotline.	Pre-construction Construction	Compliant	CDS-JV	A Community Communications Strategy (M5N-CS-PLN-PWD-0008) has been developed in accordance with CoA C1 that meets this requirement and was approved by DPE on 27/07/16.
<i>Social and economic</i>	SEO2	Acquisition would be undertaken consistently with the principles in the Land Acquisition Information Guide (Roads and Maritime, 2014b) and the <i>Land Acquisition (Just Terms Compensation) Act 1991</i> (NSW).	Pre-construction	Compliant	WCX M5 AT	Land acquisition for the New M5 project has been undertaken in accordance with the Roads and Maritime Services <i>Land Acquisition Information Guide</i> (Roads and Maritime 2014) and the <i>Land Acquisition (Just Terms Compensation) Act 1991</i> (NSW).
<i>Social and economic</i>	SEO3	A toll free number and website would be maintained to enable business owners and/or operators to receive prompt responses to their concerns, access information and view assistance measures in place during construction related work.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 8 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008-00; approved on 27/07/16).
<i>Social and economic</i>	SEO4	A business impact risk register would be maintained to identify and manage the specific impacts associated with construction related works for individual businesses.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 7 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008-00; approved on 27/07/16).
<i>Social and economic</i>	SEO5	The business stakeholder forum would be continued during detailed design and throughout construction to address business concerns. Further information about consultation can be found in Chapter 7 (Consultation)	Pre-construction Construction	Compliant	CDS-JV	Refer Section 7 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008-00; approved on 27/07/16).
<i>Soil and water quality</i>	SW01	The control and mitigation of potential surface water quality impacts during construction would be defined in a Soil and Water Management Plan prepared as part of the overall CEMP.	Pre-construction Construction	Compliant	CDS-JV	A Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved by DPE on 15/07/16) has been developed in accordance with this requirement and CoA D68(f). The CSWQSP forms a Sub-Plan (Part C) of the Construction Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-0001; submitted to DPE 31/05/16).
<i>Soil and water quality</i>	SW02	The Soil and Water Management Plan would be developed to incorporate controls and measures in accordance with The Blue Book. The plan would be continually updated to suit the changing needs as the project works progress. The plan would be developed in consultation with the Environment Protection Authority and DPI - Water and document the types of measures that would be put in place to minimise the risk of soil erosion or polluted discharges reaching the receiving environments.	Pre-construction	Compliant	CDS-JV	The Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved on 15/07/16) has been developed to incorporate 'best practice' controls and measures in accordance with the Blue Book.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW03	An Erosion and Sedimentation Management Plan would be prepared as outlined in the Erosion and Sedimentation Risk Assessment Procedure (RTA, 2008).	Pre-construction Construction	Compliant	CDS-JV	The Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved on 15/07/16) incorporates the RMS' Erosion and Sedimentation Risk Assessment Procedure (RTS, 2008) throughout.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW04	<p>The Soil and Water Management Plan would include:</p> <ul style="list-style-type: none"> · Construction traffic restricted to delineated access tracks, and maintained until construction complete · Appropriate sediment and erosion controls to be implemented prior to soil disturbance · Stormwater management to avoid flow over exposed soils which may result in erosion and impacts to water quality · Stockpiles located outside the 20 year ARI flood extent where feasible. Otherwise, appropriate management control measures such as bunding would be implemented · Staging of surface works to minimise area of exposed surfaces, with re-vegetation and / or stabilisation of disturbed areas to occur as soon as feasible · Site compounds sealed or hard stand to minimise erosion where possible · Wheel wash or rumble grid systems installed at exit points to minimise dirt on roads · A soil conservation specialist would be contracted to supervise construction in high risk areas in accordance with the Erosion and Sedimentation Management Procedure (RTA, 2008c) · All water generated during construction would be captured, tested (and treated if required) prior to reuse or discharge under a site specific arrangement, depending on the quality of water generated. This would target compliance with the Water Quality Reference Criteria. At the St Peters interchange site this would include transfer of some water to the leachate treatment plant. Varying levels of groundwater quality would also require a variation to treatment approaches · All water generated during construction would be captured, tested (and treated if required) prior to reuse or discharge under a site specific arrangement, depending on the quality of water generated. This would target compliance with the Water Quality Reference Criteria. At the St Peters interchange site this would include transfer of some water to the leachate treatment plant. Varying levels of groundwater quality would also require a variation to treatment approaches · Contaminated sediments and potential acid sulfate soils would be segregated and disposed of (with or without prior treatment as appropriate) at a licensed facility or treated onsite · Stockpiles would be located outside of riparian corridors. 	Pre-construction Construction	Compliant	CDS-JV	<p>This is addressed in Section 7.1 Table 12, project controls associated with management of soil and water quality, of the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved on 15/07/16) and Section 5 of the Water Quality Plan & Monitoring Program (M5N-ES-PLN-PWD-0027; submitted to DPE 3/06/16) – Water Quality Performance Standards.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW05	The water quality and outflow velocities of the water treatment plants at the following compounds would be in accordance with the project's Water Quality Reference Criteria and the project's Environment Protection Licence: Kingsgrove North construction compound (C1), Commercial Road construction compound (C3), Bexley Road South construction compound (C5), Arncliffe construction compound (C7), Canal Road construction compound (C8).	Construction	Compliant	CDS-JV	Refer Section 2.4 of the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved on 15/07/16) which addresses the EPL conditions relevant to soil and water management, and Section 5 of the Water Quality Plan and Monitoring Program (M5N-ES-PLN-PWD-0027; submitted to DPE 3/06/16). This requirement will also be met through the tunnel construction water treatment plant specifications and procedures.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW06	<p>The project specific water quality monitoring program would continue to collect to at least 12 months of data or to the commencement of construction (whichever is sooner) to represent pre-construction conditions for the project. Monitoring would continue during construction of the project as identified in Appendix A of the Technical working paper: Surface water (Appendix N). The details of this monitoring program would be contained in the Soil and Water Management Plan, and would include the following:</p> <ul style="list-style-type: none"> - Sampling locations to include upstream (control) and downstream measurement locations - Samples taken twice a month, once in dry conditions and once in wet conditions where possible - In-situ monitoring of: <ul style="list-style-type: none"> - pH - Reduction Oxidation Potential - Dissolved Oxygen - Temperature - Conductivity - Turbidity - Colour - Odour - Analytical sampling of the following potential constituents of concern: <ul style="list-style-type: none"> - Total Recoverable Hydrocarbons - Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene - Nutrients including: Total Nitrogen, Total Kjeldahl Nitrogen, Nitrogen Oxide, Nitrite, Nitrate, Total Phosphorous and Reactive Phosphorous - Heavy metals (Arsenic, Cadmium, Copper, Chromium, Lead, Mercury, Nickel, Zinc) - Manganese - Ferrous Iron and Total Iron. 	Pre-construction Construction	Compliant	CDS-JV	Section 6 of the Water Quality Plan and Monitoring Program (M5N-ES-PLN-PWD-0027; submitted to DPE 3/06/16) addresses testing parameter requirements for water quality monitoring.
Soil and water quality	SW07	Water quality monitoring of the breeding ponds for Green and Golden Bell Frog near Marsh Street, Arncliffe would occur during construction by a suitably qualified scientist as part of the Green and Golden Bell Frog Plan of Management.	Construction	Compliant	WCX M5 AT	Both the Water Quality Plan and Monitoring Program (M5N-ES-PLN-PWD-0027; submitted to DPE 3/06/16) and the Flora and Fauna Sub Plan (M5N-ES-PLN-PWD-0007; approved by DPE 20/07/16) reference the requirement for monitoring in accordance with the Green and Golden Bell Frog Plan of Management – Arncliffe.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW08	Opportunities for reuse of treated water generated at the Arncliffe motorway operations complex would be considered during detailed design.	Design	Compliant	CDS-JV	This requirement is addressed in the Sustainability Plan (M5N-ES-PLN-PWD-0020), Sustainability Initiatives Register and appraisal procedure.
Soil and water quality	SW09	An Acid Sulfate Soil Management Plan would be prepared as a sub-plan to the Construction Environment Management Plan to outline the requirements for the management of potential acid sulfate soils.	Pre-construction Construction	Compliant	CDS-JV	An Acid Sulfate Soils Management Plan (M5N-ES-PLN-PWD-0031; submitted to DPE on 27/05/16) has been developed as part of the Construction Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-0001; submitted to DPE 31/05/16) for the project.
Soil and water quality	SW10	Further contamination investigation would be conducted in areas with medium or high acid sulfate soils potential during the detailed design stage as part of early works. Management of acid sulphate soils during the project would be undertaken as per the management measures outlined in Section 17.4 of the EIS.	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 5.3 – Acid Sulfate Soils in the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16), Soil Contamination Report, Manage Acid Sulfate Soils Management Plan (M5N-ES-PRC-PWD-0031), and the Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036).
Soil and water quality	SW11	During landfill closure activities, surface water management measures would be implemented in accordance with The Blue Book to isolate and capture potentially contaminated water. Any such water would be transferred to the leachate treatment plant for treatment prior to discharge to sewer under a trade waste agreement with Sydney Water.	Construction	Compliant	CDS-JV	In accordance with CoA B32, A Landfill Closure Management Plan has been prepared by Golder Associates Pty Ltd. The plan was reviewed and endorsed by the EPA on 27 May 2016. The Plan and required statement was submitted to DPE on 31 May 2016. Surface water management measures are identified in the LCMP.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW12	<p>The following measures would be in place to manage spills of contaminated fluids:</p> <ul style="list-style-type: none"> • Areas would be allocated for the storage of fuels, chemicals and other hazardous materials • Facilities would be secured and bunded to levels dictated by Environment Protection Authority guidelines • Spills or contaminated runoff would be captured and treated and / or disposed of at a licensed facility • With the exception of Arncliffe construction compound, Re-fuelling would occur in bunded areas or in areas beyond 40 metres from waterways. Where refuelling occurs outside bunded areas, specific refuelling procedures would be in place and operators would be trained in these procedures. Spill kits would be readily available to manage re-fuelling outside bunded areas. At Arncliffe construction compound, a bunded area would be provided where all refuelling would occur. • Wash down and preparation of construction materials would be undertaken in bunded areas to mitigate risks in relation to spills or leaks of fuels / oils or other hazardous onsite construction material • The application of good practice in the storage and handling of dangerous and hazardous goods would provide appropriate practical responses to manage impacts on occupational health and safety and minimise the risk of a spill occurring • Potential discharges from construction sites would be managed through the installation of basins (primarily designed for sediment capture but with capacity to contain the nominated spill volume) constructed in accordance with The Blue Book • Captured contaminants resulting from spills or leaks would be treated and disposed of at a licensed facility • Any soil which has been contaminated with fuel, oils or other chemicals would be disposed as contaminated soil by a waste subcontractor. 	Construction	Compliant	CDS-JV	<p>These measures are addressed in the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16), Section 7.1, Table 12 and the Appendix B (A171-A179) Ancillary Facilities Management Sub Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16).</p>
Soil and water quality	SW13	Construction work activities within and / or adjacent to waterways would be minimised as much as feasibly possible to minimise disturbance to those waterways and waterfront land.	Construction	Compliant	CDS-JV	Refer Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16), Section 7.1 Table 12, project controls associated with management of soil and water quality.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	SW14	Alignment of drainage and discharge outlet infrastructure would direct flows downstream to minimise alterations and erosion of the channel beds and banks.	Design Construction	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.
Soil and water quality	SW15	Drainage and discharge outlet infrastructure would include energy dissipation and erosion scour protection as appropriate.	Design Construction	Compliant	CDS-JV	This is addressed in the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16) and the Design Plan (M5N-DS-PLN-PWD-0001)
Soil and water quality	SW16	Disturbed floodplain environments adjacent to watercourses (including waterfront land) and / or along overland drainage lines would be stabilised and vegetation managed in accordance with the <i>Guidelines for Controlled Activities on Waterfront Land</i> (DPI, 2012a).	Construction	Compliant	CDS-JV	Refer Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16), Section 7.1, Table 12, project controls associated with management of soil and water quality.
Soil and water quality	OpSW01	Suitable stormwater treatment devices would be identified during detailed design, including an operational water treatment plant, with the aim of meeting the targets of the Botany Bay and Catchment Water Quality Improvement Plan (SMCMA, 2011). Where space is available, water quality basins would be installed. In the case where space is unavailable, treatment would include the use of proprietary stormwater treatment devices. The design of treatment trains would be informed by an assessment of the sensitivity of the receiving environments and supported by MUSIC modelling.	Design Operation	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.
Soil and water quality	OpSW02	The treatment capacity lost in decommissioning pond WQP – 2 would be provided by new or upgraded stormwater treatment devices. Replacement water quality devices would be installed and operational prior to decommissioning of the existing water quality pond (WQP-2) in Wolli Creek catchment.	Design Operation	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	OpSW03	Operational water quality monitoring would be conducted for 12 months post-construction or as otherwise required by the conditions of approval. This would include upstream (control) and downstream monitoring locations. The details of this monitoring program would be contained in the Soil and Water Management Plan, and would include the following: <ul style="list-style-type: none"> • Sampling locations to include upstream (control) and downstream measurement locations • Samples taken twice a month, once in dry conditions and once in wet conditions where possible • In-situ monitoring of: <ul style="list-style-type: none"> - pH - Reduction Oxidation Potential - Dissolved Oxygen - Temperature - Conductivity - Turbidity - Colour - Odour • Analytical sampling of the following potential constituents of concern: <ul style="list-style-type: none"> - Total Recoverable Hydrocarbons - Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene - Nutrients including: Total Nitrogen, Total Kjeldahl Nitrogen, Nitrogen Oxide, Nitrite, Nitrate, Total Phosphorous and Reactive Phosphorous - Heavy metals (Arsenic, Cadmium, Copper, Chromium, Lead, Mercury, Nickel, Zinc) - Manganese - Ferrous Iron and Total Iron. 	Operation	N/A	WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Soil and water quality	OpSW04	New discharge outlets into Alexandra Canal would be designed with sufficient energy dissipation or scour protection to limit the impact on contaminated sediments and reduce the possibilities of contaminated sediments being subject to scour or resuspension.	Design	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.
Soil and water quality	OpSW05	Where existing drainage lines are to be subject to increased inflow, an assessment of their discharge characteristics would be made. If necessary, energy dissipation or scour protection would be added to prevent contaminated sediments from being subject to scour or resuspended. This would be undertaken during detailed design.	Design	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Soil and water quality	OpSW06	The assessment of risk of spills on the motorway would be undertaken during detailed design. If warranted, spill containment would be provided.	Design	Compliant	CDS-JV	Spill risk is being assessed is drainage design for each design package. This includes specification of separation and retention devices both on surface roads and tunnel pavements.
Soil and water quality	OpSW07	The operational water treatment plant would be designed to meet the Water Quality Reference Criteria outlined in Appendix A of the Technical working paper: Surface water (Appendix N). Monitoring of the Cooks River would be undertaken during initial operation of the project to ensure discharge meets these criteria.	Design Operation	Compliant	CDS-JV WCX M5 AT	The operational water treatment plant is being designed as part of the Water Treatment Plant and Wetland Design Package which will reference the technical working paper in determining the plant specifications. Monitoring of operational discharge will be detailed in the Project Operational Environmental Management Plan.
Soil and water quality	OpSW08	Suitably designed scour and erosion control measures would be included in the detailed design.	Design	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.
Soil and water quality	OpSW09	Drainage and discharge infrastructure where space is available would incorporate measures, as appropriate, to trap and remove sediments in line with the outcomes of the stormwater pollution reduction targets from the Botany Bay and Catchment Water Quality Improvement Plan (SMCMA, 2011). This would reduce the risk of any impacts to the geomorphic condition of receiving waters.	Design Construction	Compliant	CDS-JV	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.
Contamination	CM01	The closure and ongoing management of the Alexandria Landfill would be undertaken in line with the LCMP (see Section 17.3.4 and Section 5.9.1 of the EIS) and remedial action plan. This includes a landfill closure, environmental management and monitoring framework.	Pre-construction Construction	Compliant	CDS-JV	A St Peters Interchange - Landfill Closure Management Plan prepared by Golder Associates Pty Ltd (M5N-GOL-TER-900-116-0012; submitted 30 May 2016) has been developed in accordance with CoA B32. Compliance with this plan will be reported on during the quarterly construction compliance reports.
Contamination	CM02	A site specific management plan would be prepared for the Alexandria Landfill to manage the excavation of parts of the landfill during construction. The management plans, amongst other requirements would detail mitigation measures to: <ul style="list-style-type: none"> • Contain and treat landfill gas emissions from excavations • Treat offensive odours produced by leachate and landfill gas • Contain, extract and treat leachate within excavations • Protect workers and off-site receptors from exposure to potential biological, chemical and physical hazards encountered during the exhumation of landfill waste. • Manage asbestos contaminated wastes 	Pre-construction	Compliant	CDS-JV	This is addressed in the St Peters Interchange - Landfill Closure Management Plan prepared by Golder Associates Pty Ltd (M5N-GOL-TER-900-116-0012; submitted 30 May 2016)

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Contamination	CM03	Potentially contaminated areas directly affected by the project would be investigated and managed in accordance with the requirements of guidance endorsed under section 105 of the CLM Act. This includes further investigations in areas of potential contamination identified in the construction footprint.	Pre-construction	Compliant	CDS-JV	Refer Section 5.4 and Section 7, Table 12 of the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved on 15/07/16) and the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; Submitted 2 June 2016).
Contamination	CM04	An unexpected finds and hazardous materials procedure would be implemented to manage any potentially contaminated materials that may be encountered during site preparation and / or construction works.	Pre-construction	Compliant	CDS-JV	A Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036) has been developed for the project and includes a procedure for the management of unexpected finds of contamination/hazardous materials.
Contamination	CM05	<u>Waste management plans</u> , as part of the CEMP, would include procedures for handling and storing potentially contaminated spoil and, should off-site disposal be required, undertaking waste assessment and classification for off-site disposal to appropriately licenced waste facilities. See Chapter 24 (Resource use and waste minimisation) of the EIS for more information.	Pre-construction	Compliant	CDS-JV	A Construction Waste and Resource Sub-plan (CWRSP; M5N-ES-PLN-PWD-0008; approved on 15/07/16) has been developed for the project and incorporates this requirement. Section 4 of the Construction Environment Management Plan (M5N-ES-PLN-PWD-0001; submitted 31/05/16) and the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; Submitted 2 June 2016) also address this requirement.
Contamination	CM06	<u>Site specific asbestos management plans</u> would be developed where relevant. Refer to Chapter 24 (Resource use and waste minimisation) of the EIS for further information on asbestos management.	Pre-construction	Compliant	CDS-JV	This requirement is addressed in the project's Manage Work with Asbestos Procedure (M5N-ES-PRC-PWD-0037) and Construction Area Plans.
Contamination	CM07	A hazardous materials assessment would be carried out prior to and during the demolition of buildings. Demolition works would be undertaken in accordance with the relevant Australian Standards and relevant NSW WorkCover Codes of Practice, including the <i>Work Health and Safety Regulation 2011</i> .	Pre-construction Construction	Compliant	CDS-JV	This requirement will be addressed in the project's Demolition Plan.
Contamination	CM08	A dangerous goods search of the WorkCover NSW records for licenced dangerous good would be undertaken prior to construction.	Pre-construction	Compliant	CDS-JV	This is addressed in the Phase 1 Environmental Site Assessment reports prepared under the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; Submitted 2 June 2016)
Contamination	CM09	An explosive ordnance due diligence assessment would be completed at the identified former ammunition site (Project area 3), located between Flatrock Road, Bexley Road and Wolli Creek.	Pre-construction	Compliant	CDS-JV	This is addressed in the Phase 1 Environmental Site Assessment reports prepared under the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; Submitted 2 June 2016)

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Contamination	CM10	In the event of encountering unexpected finds of contamination (i.e. the observation of offensive odours, soil discoloration, buried waste or potential asbestos containing materials) during construction, work in the area would cease until an appropriately qualified environmental consultant can advise on the need for further assessment, remediation or other action, as deemed appropriate. Further assessment and management of contamination, if required, would be undertaken in accordance with section 105 of the CLM Act.	Construction	Compliant	CDS-JV	This is addressed in the Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036) and the Manage Work with Asbestos Procedure (M5N-ES-PRC-PWD-0037).
Contamination	CM11	Appropriate mitigation measures to minimise sediment mobilisation as a result of construction activities at the location of the new stormwater infrastructure at Alexandra Canal would be detailed in the CEMP in accordance with the requirements of the Remediation Order in consultation with NSW EPA and Sydney Water. Measures would be detailed in a Alexandra Canal Contamination Management Plan.	Pre-construction Construction	Compliant	CDS-JV	Refer Section 3.1 of the Construction Soil and Water Quality Sub-plan (M5N-PM-PLN-PWD-0005; approved on 15/07/16) and the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; Submitted 2 June 2016)
Contamination	CM12	Appropriate mitigation measures including stockpiling and management of potentially contaminated material would be undertaken at construction compounds to prevent movement of material into receiving waters.	Construction	Compliant	CDS-JV	This requirement is addressed through the Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036), and any relevant Remediation Action Plan for the site.
Contamination	CM13	Plant, equipment and supplies would be managed to prevent spills and leaks. See Chapter 26 (Hazard and risk) of the EIS for more information.	Construction	Compliant	CDS-JV	Refer to Section 7 of the Construction Soil & Water Quality Sub-Plan (M5N-PM-PLN-PWD-0005; approved on 15/07/16). The Manage Hazardous Substances Procedure (M5N-ES-PRC-PWD-0041) also addresses this REMM.
Contamination	CM14	Tunnel washing water and waste would be appropriately contained, treated and disposed of. Refer to Chapter 24 (Resource use and waste minimisation) of the EIS for more information.	Construction	Compliant	CDS-JV	Refer to Section 7, Table 12 of the Construction Soil & Water Quality Sub-Plan (M5N-PM-PLN-PWD-0005; approved on 15/07/16).
Contamination	CM15	Further <i>in situ</i> testing of soils in areas of known potential contamination to determine waste classification.	Construction	Compliant	CDS-JV	Refer to the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; Submitted 2 June 2016) and the Construction Waste and Resource Sub-Plan (M5NES-PLN-PWD-0008; approved 15/07/16).
Contamination	OpCM1	The ongoing management of the Alexandria Landfill will be undertaken in line with the <u>LCMP</u> (see Section 17.3.4 and Section 5.9.1 of the EIS)	Operation	N/A	WCX M5 AT	This requirement will be reported on during the pre-operation compliance report.
Contamination	OpCM2	Procedures to address spills, leaks and tunnel washing would be developed and implemented during operation of the project	Operation	N/A	WCX M5 AT	This requirement will be reported on during the pre-operation compliance report.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Contamination	OpCM3	Measures to minimise sediment mobilisation during operation would be incorporated into the design of stormwater outlets at the location of the new stormwater infrastructure at Alexandra Canal. The design of the outlets, including discharge velocities and scour protection measures, would be confirmed during detailed design and supported by appropriate drainage modelling. The detailed design of the outlets would be finalised in consultation with the NSW EPA with consideration of the requirements of the Remediation Order and would be provided to Sydney Water for approval (as the asset owner).	Design Operation	N/A	WCX M5 AT	This will be addressed in the Stormwater Drainage Report, which will be submitted to the Secretary.
Contamination	OpCM4	Ongoing management of sites with contamination managed or emplaced in-situ would be managed in accordance with site specific Site Management Plans. Where required, a Site Management Plan (SMP) would be developed and implemented to manage risks associated with the presence of residual contamination that in situ. The requirement for an SMP would be evaluated based on the nature, concentration and extent of contamination as well as the current and proposed land use.	Operation	N/A	WCX M5 AT	This requirement will be reported on during the pre-operation compliance report.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	FD01	<p>A Flood Management Strategy would be prepared by a suitable qualified and experienced person in consultation with directly affected landowners, DPI-Water, OEH, Sydney Water and the relevant local councils. It would include but not be limited to:</p> <ul style="list-style-type: none"> • Identification of flood risks to the project and adjoining areas, including consideration of local drainage catchment assessments and climate change implications on rainfall, drainage and tidal characteristics • Design and mitigation measures to protect proposed operations and not worsen existing flooding characteristics during construction and operation, including soil erosion and scouring • Drainage system upgrades • Preparation of a flood / emergency management plan. 	Detailed design Pre-construction	Compliant	CDS-JV	<p>A Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001) has been prepared in accordance with CoA B23. The FMS outlines the project approach to flood mitigation. The FMS was provided to the DPI (Water) and OEH, Sydney Water and the following councils on 3/05/2016 for consultation:</p> <ul style="list-style-type: none"> - City of Sydney - Hurstville - Marrickville - City of Botany Bay - Rockdale - Canterbury <p>The FMS will be supported by separate Flood Mitigation Plans that detail the design outcomes and specific mitigation measures to be applied to individual sites to meet this condition. These plans will be prepared for temporary works and for permanent works and will be submitted to DPE in a staged approach, and prior to the commencement of the relevant stage.</p> <p>The FMS was submitted to DPE on 25/05/2016. The FMS has been updated in response to DPE comments and was re-submitted to the Secretary and relevant councils on 3/08/2016.</p>
<i>Flooding and drainage</i>	FD02	<p>The Flood Management Strategy would be peer reviewed and confirmed as meeting the requirements of this management measure by a suitably qualified and experienced independent hydrological engineer. It would be submitted to the Secretary of DP&E and the relevant local councils prior to construction works commencing in the vicinity of flood prone land and overland flow paths for the waterways and catchments in the vicinity of the project area, or as otherwise agreed by the Secretary of DP&E.</p>	Detailed design Pre-construction	Compliant	CDS-JV	<p>CoA B23 requires peer review of the Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016). The peer review was undertaken by an independent verifier, [REDACTED] on 29/4/2016 and was submitted to the Secretary and the relevant council(s) on 3/08/2016. The FMS was updated to address DPE comments and was re-submitted on 3/08/2016.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	FD03	The 100 year ARI flood level is to be adopted in the assessment of measures which are required to mitigate any adverse impacts attributable to the project. Changes in flood behaviour under PMF conditions would also be assessed in order to identify impacts on critical infrastructure and significant changes in flood hazards as a result of the project.	Detailed design Pre-construction	Compliant	CDS-JV	This requirement is also provided in CoA B23. This requirement is addressed in Tables 1 and 2.2 of the Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016).
<i>Flooding and drainage</i>	FD04	A detailed hydraulic assessment into the impacts the project would have on flooding behaviour and relevant mitigation measures would be undertaken.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) sets the approach to design and assessment for flood mitigation. The FMS will be supported by separate Flood Mitigation Plans that detail the design outcomes and specific mitigation measures that are applied to individual sites to meet the CoA.
<i>Flooding and drainage</i>	FD05	Works within the floodplain would be designed to minimise adverse impacts on surrounding developments for flooding up to the 100 year ARI flood. Assessment would also be undertaken of the impacts during flooding in excess of the 100 year ARI flood up to the PMF in the context of impacts to critical infrastructure and flood hazards.	Detailed design Pre-construction	Compliant	CDS-JV	The methodology for this assessment is provided in Section 3 of the Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) and mitigation measures are provided in Sections 4 and 5 of the FMS. The Strategy requires ongoing detailed design to finalise detailed mitigation measures at each site. Development of measures required to complete the Strategy will be staged and delivered progressively for construction compounds and permanent works.
<i>Flooding and drainage</i>	FD06	A floor level survey would be undertaken in affected areas to determine whether the project would increase floor damages in adjacent developments (ie in properties where there is a potential for increases in peak flood levels for events up to the 100 year ARI flood).	Detailed design Pre-construction	Compliant	CDS-JV	A floor level survey has been undertaken to enable flood modelling to be undertaken, refer to section 3 of the Flood Mitigation Strategy (M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	FD07	Flood management plans would be developed as part of the CEMP prior to construction to guide the detailed design of temporary ancillary facilities, including construction compounds, to minimise the potential impacts of flooding on the project.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding. The Strategy requires ongoing detailed design to finalise detailed mitigation measures at each site. Development of measures required to complete the Strategy will be staged and delivered progressively for construction compounds and permanent works. Drainage design measures have been incorporated into the site layout plans provided in the Ancillary Facilities Management Plan (Appendix F & G).
<i>Flooding and drainage</i>	FD08	Around 8,000 cubic metres of the projected 12,000 cubic metres of lost floodplain storage due to the operation of the Arncliffe motorway operations complex (MOC3) would be required to be recaptured. Floor level surveys would be undertaken to determine whether the project would result in the above-floor inundation of the following potentially affected properties. Further design development would be undertaken during detailed design to confirm the extent of works required to mitigate the impact of the project on flooding conditions at these existing residential developments.	Detailed design Pre-construction	Compliant	CDS-JV	A site-specific Flood Management Plan, to be developed as described under the Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) will identify the measures required at the Arncliffe complex to prevent inundation. The Flood Management Plan will be finalised prior to the relevant works being undertaken at Arncliffe.
<i>Flooding and drainage</i>	FD09	Detailed design would aim to reduce the impact of the project on flooding conditions for the following two potentially affected properties. This would include consideration of whether the project would result in above-floor inundation of these properties.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise flood impacts of the project. The Flood Mitigation Plans will document the outcomes of the application of the design measures at the following locations (refer FD09 & FD10 below).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	FD10	The potential to reduce impacts of the project on flooding for the properties located on the western overbank of the Alexandra Canal would be considered during detailed design. This would also include consideration of whether the project would result in above-floor inundation of these properties.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) and associated Flood Management Plan will identify the measures required for works near the Alexandra Canal to prevent inundation. The Flood Management Plan(s) for the Alexandra Canal works will be provided prior to the relevant works being undertaken.
<i>Flooding and drainage</i>	FD11	Further design development would be undertaken to mitigate the impact of the project on flooding conditions in the TransGrid site. This would include further refinement of design of the relief drain, as well as the western approach to the Campbell Road bridge.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) and associated Flood Management Plan will identify the measures required for this zone to improve. The FMS requires ongoing detailed design to finalise detailed mitigation measures at each site. Development of these measures and the associated Flood Management Plans will be staged and submitted prior to commencement of the relevant works.
<i>Flooding and drainage</i>	FD12	Existing transverse drainage structures would be left in place during construction where transverse drainage structures are to be upgraded or replaced. If this is not feasible, temporary drainage would be adopted.	Detailed design Pre-construction	Compliant	CDS-JV	Site plans and permanent design have been prepared to maintain or improve drainage.
<i>Flooding and drainage</i>	FD13	Detailed flood modelling to understand the effects of likely rainfall events would be undertaken. Construction layouts would be finalised accordingly.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) draws on detailed flood modelling undertaken during detailed design and takes into consideration rainfall events. Construction layouts have been designed with consideration of rainfall events.
<i>Flooding and drainage</i>	FD14	Tunnel dive shafts would be protected against flooding either through locating openings outside of flood prone areas or constructing temporary bunding and / or appropriate temporary drainage. Stockpiles would be located outside the 20 year ARI flood extent where possible. Where construction compounds are located in the 20 year ARI flood extent, a contingency plan to manage flooding would be prepared and implemented.	Detailed design Pre-construction	Compliant	CDS-JV	This is addressed in Section 7.1 of the Construction Soil and Water Quality Sub-Plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16) and the Design Flood Report. Identified measures will be incorporated into Construction Area Plans.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	FD15	<p>Further detailed assessment of flooding impacts for proposed construction compounds and relevant management measures would be undertaken during detailed design. <u>Contingency plans</u> to manage flooding would be prepared and implemented for high risk temporary facilities proposed including fuel storages, water treatment plants and substations, as well as for the following construction compounds (located either wholly or partially within the 20 year ARI flood extent):</p> <ul style="list-style-type: none"> • Kingsgrove South construction compound (C2) • Commercial Road construction compound (C3) • Bexley Road North construction compound (C4) • Bexley Road South construction compound (C5) • Arncliffe construction compound (C7) • Alexandra Canal bridge construction compound (C12) • Gardeners Road bridge construction compound (C13). <p>For these sites, suitable procedures for flood warning, emergency management, site evacuation and planning would be developed.</p>	Detailed design Pre-construction	Compliant	CDS-JV	<p>The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise flood impacts of the project.</p> <p>Flood Mitigation Plans will document the outcomes of the application of the design measures at all flood affected sites. Identified measures will be implemented through Construction Area Plans.</p>
<i>Flooding and drainage</i>	FD16	<p>The following measures would be implemented to manage flooding risks on construction sites:</p> <ul style="list-style-type: none"> • Temporary bunding around parts of the site that would be adversely affected by floodwaters • Temporary drains / detention areas within the site • Use of carparks to provide detention • Elevation of site buildings where necessary to get floor levels above expected flood levels • Use of erosion and sediment fences around noise barriers to provide bunding to some parts of the sites while directing overland flows through less sensitive parts of sites, particularly at Kingsgrove and Arncliffe. 	Construction	Compliant	CDS-JV	<p>Refer to Section 7.1 of the Construction Soil and Water Quality Sub-Plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16). Identified measures will be implemented through Construction Area Plans and Erosion and Sediment Control Plans.</p>
<i>Flooding and drainage</i>	FD17	<p>A <u>drainage strategy</u> would be determined during detailed design to manage the increased runoff within the catchment draining into Camdenville Park. This drainage strategy would be based on not increasing flows into the Eastern Channel for all events up to and including the 100 year ARI flood.</p> <p>The strategy would be prepared in consultation with Marrickville Council.</p>	Detailed design Pre-construction	Compliant	CDS-JV	<p>The St Peters Local Roads Drainage Design will be prepared in consultation with Inner West Council. This design will incorporate this environmental mitigation measure.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	FD18	A more detailed assessment would be undertaken during detailed design to determine the climate change related flood risks to the project and to scope requirements for any management measures. The assessment would be undertaken in accordance with the <i>Practical Considerations of Climate Change – Floodplain Risk Management Guideline</i> (DECC, 2007)	Detailed design Pre-construction	Compliant	CDS-JV	<p>The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding.</p> <p>The FMS requires ongoing detailed design to finalise detailed mitigation measures at each site and will include assessing climate change flood risk. Development of these measures will be staged and delivered progressively for permanent works.</p>
<i>Flooding and drainage</i>	OpFD01	Bridge crossings over the Alexandra canal would incorporate a suitable freeboard between the underside of the bridge structure and the peak 100 year ARI flood level.	Detailed design	Compliant	CDS-JV	<p>The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding.</p> <p>The FMS requires ongoing detailed design to finalise detailed mitigation measures at each site and will include assessing climate change flood risk. Development of these measures will be staged and delivered progressively for permanent works.</p>
<i>Flooding and drainage</i>	OpFD02	The project and associated arrangements would be designed to limit increases in peak discharges into the downstream drainage systems in accordance with local council requirements.	Detailed design Pre-construction	Compliant	CDS-JV	<p>The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding.</p> <p>The FMS requires ongoing detailed design to finalise detailed mitigation measures at each site and will include assessing climate change flood risk. Development of these measures will be staged and delivered progressively for permanent works. The FMS has been prepared in consultation with the relevant local councils.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Flooding and drainage</i>	OpFD03	The control and mitigation of potential localised flooding and drainage impacts during operation would include: <ul style="list-style-type: none"> • Drainage systems that are of insufficient capacity would be modified or upgraded to cater for increased flows • Where new drains connect with existing drainage networks a survey and condition assessment would be undertaken to inform detailed design • The efficiency of transverse drainage upgrades would be taken into account during detailed design • The effects a partial blockage of major hydraulic structures on flooding behaviour would be considered when determining finished road level and flood wall heights. 	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding. The FMS and associated Flood Management Plans take these requirements into consideration.
<i>Flooding and drainage</i>	OpFD04	Tunnel entries and associated flood protection barriers would be located above the PMF level or the 100 year ARI flood level plus 0.5 metres (whichever is greater). The same hydrological standard would be applied to tunnel ancillary facilities such as tunnel ventilation and water treatment plants where the ingress of floodwaters would also have the potential to flood the tunnels.	Detailed design Pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding. The FMS and associated Flood Management Plans take these requirements into consideration.
<i>Flooding and drainage</i>	OpFD05	A suitable freeboard would be incorporated into the design of openings into the new road tunnels (eg at the location of the tunnel portals and ventilation shafts). These designs would take into account the impacts of a partial blockage of major hydraulic structures as well as climate change induced sea level rise on PMF event levels.	Detailed design / pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding. The FMS and associated Flood Management Plans take these requirements into consideration.
<i>Flooding and drainage</i>	OpFD06	Emergency response facilities, including the motorway control centre, tunnel fire water tank and pump buildings and associated electrical substations would be locate above the PMF level or the 100 year ARI flood level plus 0.5 metres (whichever is greater).	Detailed design / pre-construction	Compliant	CDS-JV	The Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise impacts to flooding. The FMS and associated Flood Management Plans take these requirements into consideration.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Groundwater	GW01	An Acid Sulfate Soil Management Plan (ASSMP) would be prepared including the measures and monitoring to be undertaken where potential acid sulfate soils are expected. The plan would outline the type of treatment required for acid sulfate soils, bunding and requirement for treatment ponds.	Pre-construction	Compliant	CDS-JV	This is addressed in Appendix A of the Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16).
Groundwater	GW02	A groundwater and soil salinity report would be prepared prior to the commencement of earthworks to assess the potential impacts to the local hydrogeological regime.	Pre-construction	Compliant	CDS-JV	A Groundwater and Soil Salinity Report (M5N-GOL-TER-100-200-GT-1520) has been prepared to comply with this requirement.
Groundwater	GW03	Contingency measures to address leachate management at the Alexandria Landfill during construction and prior to the commissioning of the new leachate treatment plant would be explored during detailed design. Identified measures would be detailed in the CEMP and implemented during construction.	Construction	Compliant	CDS-JV	The Landfill Closure Management Plan (LCMP; M5N-GOL-TER-900-116-0012) has been prepared and meets this requirement. The LCMP was submitted to DPE on 2/06/16. Identified measures will be incorporated into Construction Area Plans.
Groundwater	GW04	The tunnel construction program would be constructed in accordance with an overarching CEMP for the project which would include measures to manage contaminated groundwater issues. This may include removal of the source of the contamination by excavation and remediation of shallow impacted soils or engineering a solution to prevent the migration of contaminated groundwater into the tunnels.	Construction	Compliant	CDS-JV	The CEMP and associated sub-plans have been submitted to DPE (26-31/05/16) for approval. This includes a Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved on 15/07/16). In addition, a Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033), that addresses contaminated groundwater issues, has been prepared in consultation with EPA and the relevant Councils and was submitted to DPE (2/6/16) prior to works impacting on contaminated land or water.
Groundwater	GW05	Intersected shallow contaminated groundwater would be directed to the construction water treatment plant prior to discharge. Elsewhere, collection and treatment options would be considered and releases made under relevant discharge criteria.	Construction	Compliant	CDS-JV	Refer to Section 7.1 of the Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16) for the location of groundwater treatment plants. Discharges from water treatment plants will be in accordance with the requirements of the Environment Protection Licence (EPL No. 20772 or No. 4627).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Groundwater	GW06	The intersection of shallow groundwater at the Arncliffe construction compound (C7) would be managed under CEMP(s) for the project. In the event that contaminated groundwater is intersected the approach would be to either remove the source of the contamination by excavation and remediation of shallow impacted soils or engineering a solution to prevent the migration of contaminated groundwater into the project tunnels.	Construction	Compliant	CDS-JV	Refer to Section 7.1 of the Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16) and the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033; submitted 2/06/16), which has been prepared in consultation with EPA and Councils and has been submitted to DPE for approval prior to works that will impact on contaminated land or water.
Groundwater	GW07	Treated waste water would be stored and re-used for project purposes wherever possible. Groundwater reuse would be in accordance with the policies of sustainable water use of the NSW Office of Water, such as dust suppression and earthworks	Construction	Compliant	CDS-JV	Refer to Section 7.1 of the Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16) and the Manage Soil and Water Procedure (M5N-ES-PRC-PWD-0035). A Water Reuse Strategy is under preparation and is anticipated to be submitted to DPE in August 2016, prior to the commencement of tunnelling works.
Groundwater	GW08	Where saturated faults and fractures are intersected additional rock support would be installed in order to ensure tunnel stability. Appropriate waterproofing measure to reduce the inflow to an acceptable quantity will be applied as required. Measures can range from a spray-on membrane to grouting or installation of a sheet membrane	Construction	Compliant	CDS-JV	This is addressed in the Design Plan (M5N-DS-PLN-PWD-0001) and the Construction Management Plan (M5N-CN-PLN-PWD-0001).
Groundwater	GW09	Where higher than expected inflows are experienced as beneath the Cooks River and under other major surface water features, appropriate waterproofing measure to permanently reduce the inflow to an acceptable quantity will be applied as required. Measures can range from a spray- on membrane to grouting or installation of a sheet membrane depending on the inflow volume	Construction	Compliant	CDS-JV	This is addressed in the Design Plan (M5N-DS-PLN-PWD-0001) and the Construction Management Plan (M5N-CN-PLN-PWD-0001).
Groundwater	GW10	Building materials that are resistant to aggressive groundwater conditions would be selected.	Design	Compliant	CDS-JV	This is addressed in the Design Plan (M5N-DS-PLN-PWD-0001) and design reports.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Groundwater	GW11	<p>The project works would be undertaken in accordance with a CEMP(s) for the project which would include the following management measures:</p> <ul style="list-style-type: none"> • Stockpiles of fuels, hazardous liquids and chemicals would be stored in an impervious bunded area in accordance with Australian Standards and EPA guidelines • The storage of fuels and chemicals would be limited to locations more than 40 metres from any water course • With the exception of Arncliffe construction compound, re-fuelling would occur in bunded areas or in areas beyond 40 metres from waterways. Where refuelling occurs outside bunded areas, specific refuelling procedures would be in place and operators would be trained in these procedures. Spill kits would be readily available to manage re-fuelling outside bunded areas. At Arncliffe construction compound, a bunded area would be provided where all refuelling would occur. • Vehicles would be properly maintained to minimise the risk of fuel/oil leaks and routine inspections of construction equipment would be undertaken to identify any fuel/oil leaks • Emergency spill kits would be kept on-site and project personnel would be aware of the location of spill kits and trained in their use • Hazardous materials handling procedures would be documented and implemented • In the event of an incident resulting in impacts to human health or the environment, works would cease immediately and the EPA would be notified (if required) • Erosion and sediment control measures would be regularly inspected, and particularly following rainfall events. The controls would remain in place until construction works are completed and areas are stabilised. 	Construction	Compliant	CDS-JV	Refer to Section 7.1 of the Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005; approved 15/07/16).
Groundwater	GW12	<p>A tunnelling procedure that details a methodology to determine when and what type of waterproofing is required to be installed during construction would be implemented during construction. Pre-excavation pressure grouting may also be used in locations identified that could produce substantial inflows to reduce groundwater inflows to an acceptable level. Post grouting (ie grouting undertaken post excavation) may also be required to further reduce groundwater inflows. Post grouting would occur within one month post excavation.</p>	Construction	N/A	CDS-JV	<p>Detailed design for the tunnel is progressing, with waterproofing design expected to be issued in August 2016.</p> <p>A tunnelling procedure is under development and will be reported on during the quarterly compliance report prior to commencement of tunnelling works.</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Groundwater	GW13	A groundwater monitoring program would be prepared and implemented to monitor groundwater impacts during construction. This would include the monitoring of groundwater inflow into the tunnels. The program would be developed in consultation with the EPA, DPI (Fisheries), NSW DPI Water and relevant councils.	Construction	Compliant	CDS-JV	Refer to the Water Quality Plan and Monitoring Program (WQP&MP; M5N-ES-PLN-PWD-0025). The WQP&MP has been updated to address DPE comments and was re-submitted to DPE on 28/07/16. The WQP&MP was provided to Councils, DPI (Water) and EPA for consultation on 3/05/16, and to Sydney Water on 14/06/16.
Groundwater	GW14	Where the project alignment passes close to watercourses and inflows are elevated, appropriate waterproofing measures to permanently reduce the inflow to an acceptable quantity would be applied as required	Construction	Compliant	CDS-JV	This is addressed in the Tunnel Waterproofing Design, expected to be issued in August 2016.
Groundwater	GW15	In the event that the drawdown in a licensed water supply bore or irrigation bore exceeds two metres (in accordance with the Aquifer Interference Policy) or that impacts to groundwater quality alter the beneficial use of the water, measures would be taken to 'make good' the impact by restoring the water supply to pre-development levels. The measures taken would be dependent upon the location of the impacted bore and would be determined in consultation with the affected licence holder but could include, deepening the bore, providing a new bore or providing an alternative water supply.	Construction Operation	Compliant	CDS-JV	This is addressed in the Water Quality Plan and Monitoring Program (M5N-ES-PLN-PWD-0025; re-submitted to DPE on 28/07/16).
Groundwater	GW16	A <u>Settlement Monitoring Plan</u> would be prepared that would provide details on: <ul style="list-style-type: none"> • Location of monitoring points • Duration of monitoring • Data collection and review • Roles and responsibilities for review of data • Triggers and actions for corrective actions. 	Construction	Compliant	CDS-JV	This is addressed in the Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530).
Groundwater	GW17	Building conditions surveys would be undertaken in the zone of influence of the tunnel settlement where the settlement is expected to have a potential impact. In the unlikely event that any damage occurs to a property, appropriate rectifications would be carried out.	Construction	Compliant	CDS-JV	This is addressed in the Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530).
Groundwater	GW18	Services in locations where differential/ angular settlement is anticipated would be identified. A monitoring plan, triggers and actions would be agreed with the relevant utility owner prior to potential impacts occurring.	Construction	Compliant	CDS-JV	This is addressed in the Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Groundwater	GW19	A monitoring program, undertaken as part of the Settlement Management Plan, would be carried out prior to excavation until all relevant settlement has stabilised. Monitoring would be for a period of not less than six months after settlement has stabilised.	Construction	Compliant	CDS-JV	This is addressed in the Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530).
Groundwater	OpGW01	An OEMP would be prepared and implemented to outline management measures for groundwater inflows, treatment and discharge and protocols for spillages or incidents. Monitoring parameters may include groundwater levels, groundwater quality including field parameters, laboratory analytes and sample frequency.	Pre-operation	N/A	CDS-JV	The OEMP will be prepared in accordance with this requirement and will be submitted to DPE for approval prior to operation.
Groundwater	OpGW02	The drainage system would be regularly maintained in accordance with the Operational Environmental Management Plan.	Pre-operation	N/A	CDS-JV	The OEMP will be prepared in accordance with this requirement and will be submitted to DPE for approval prior to operation.
Groundwater	OpGW03	A groundwater monitoring program would be prepared and implemented to monitor groundwater impacts during tunnel operations. This would include the monitoring of groundwater inflow into the tunnels. The program would be developed in consultation with the EPA, DPI (Fisheries), NSW DPI Water and relevant councils. The groundwater monitoring program would continue (where appropriate) the construction groundwater monitoring program (GW13) and would continue for three years, after which, the requirement for further monitoring would be assessed. The following analytes would be added to the groundwater baseline monitoring program for the project in order to inform the discharge water quality criteria <ul style="list-style-type: none"> • Ammonium • Phenols • Organophosphorus pesticides • Polychlorinated biphenyls (PCBs). Discharge water quality criteria would be developed in consultation with the EPA.	Pre-operation	N/A	CDS-JV WCX M5 AT	The operational phase groundwater monitoring program will be prepared prior to operation in accordance with this requirement.
Groundwater	OpGW04	Contingency measures to address leachate management in the event of pump failure would be explored during detailed design and implemented in the Landfill Closure Plan.	Pre-construction	Compliant	CDS-JV	The Landfill Closure Management Plan (LCMP; M5N-GOL-TER-900-116-0012) has been prepared and includes contingency measures for leachate management. The LCMP was submitted to DPE on 2/06/16.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Groundwater	OpGW05	The final design capacity of the new leachate treatment plant would have a maximum 200 kilolitres per day and would be confirmed in consultation with Environment Protection Authority and Department of Primary Industries (Water) during detailed design.	Detailed design	Compliant	CDS-JV	Design of a new leachate treatment plant will be undertaken in consultation with EPA and DPI Water during detailed design.
Non-Aboriginal heritage	NAH01	Protocols would be developed for anticipated categories of unexpected non-Aboriginal heritage finds, such as tram infrastructure, late 19th to early 20th refuse, and brick works. In the event of an unexpected cultural heritage find outside of these specific protocols, the <i>Standard Management Procedure – Unexpected Archaeological Finds</i> (Roads and Maritime, 2015a) would be followed. This would include notification to the NSW Heritage Division of OEH (highly effective).	Pre-construction Construction	Compliant	CDS-JV	The Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16) includes a Historical Archaeological Research Design (Appendix D), which describes the anticipated categories of non-Aboriginal heritage finds for the project, and incorporates the Roads and Maritime unexpected finds procedure (Appendix A).
Non-Aboriginal heritage	NAH02	Construction personnel would be made aware of non-Aboriginal heritage sites as part of the site induction. These sites would be identified on sensitive area plans and in the CEMP (highly effective).	Pre-construction Construction	Compliant	CDS-JV	The Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16) addresses this requirement. Heritage sites are identified on heritage maps contained in Appendix B to the CHSP and will be identified on Site Environment Plans.
Non-Aboriginal heritage	NAH03	As part of the construction heritage management plan, an <u>overarching historical archaeological research design</u> would be prepared prior to commencement of construction in consultation with the NSW Heritage Division of OEH. It would describe clear significance thresholds to possible archaeological items that may be uncovered during works and designate when monitoring, testing and / or salvage and excavation should occur in relation to the project works and timing. Post-excavation reporting, including artefact analysis and additional historical research (where necessary), would be required for any historical archaeological investigations undertaken (moderately effective).	Design	Compliant	CDS-JV	The Historical Archaeological Research Design is provided in Appendix D to the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16). The CHSP was provided to the NSW Heritage Division of OEH for consultation on 3/5/16.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Non-Aboriginal heritage</i>	NAH04	<p>A construction heritage management plan would be prepared prior to construction in consultation with the NSW Heritage Division of OEH, local councils and Sydney Water. The plan would detail how construction impacts on heritage would be minimised and managed including training and induction processes for construction personnel. Inductions are to cover built heritage, landscape and historical archaeological sites and their management, and provide heritage guidance on how to avoid / manage impacts. The induction would be prepared in consultation with a suitably qualified heritage specialist and historical archaeologist. As a minimum, the plan would include the following:</p> <ul style="list-style-type: none"> • Induction protocols for staff and project personnel to undertake a cultural heritage induction, to assist them in understanding and complying with their legal obligations under the Heritage Act 1977 • A list, plan and GIS layer showing the location of identified heritage items • A significance assessment and statement of significance for each item • Detail the mitigation measures identified and when the measures are to be implemented • Provide protocols and procedures to be enacted during construction to ensure the protection of items of heritage significance, or elements that contribute to the values of the heritage conservation area • An unexpected finds procedure in the event that further sites are identified during works. The separate procedure for the discovery of skeletal remains (highly effective). 	Pre-construction	Compliant	CDS-JV	<p>The Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16) was provided to the NSW Heritage Division of OEH, local councils and Sydney Water for consultation on 03/05/2016.</p> <p>An induction has been prepared in consultation with the project heritage specialists, Extent Heritage.</p> <p>The CHSP includes lists and plans to identify all known heritage items within and near the project footprint (Appendix B). A statement of significance for each item is contained in Appendix C. Mitigation measures are identified in Section 6 of the CHSP, which link to the protocols and procedures to be implemented to protect heritage during construction. The RMS unexpected finds procedure will be implemented for the project and is provided in Appendix A of the CHSP.</p>
<i>Non-Aboriginal heritage</i>	NAH05	Impacts to built heritage, heritage landscapes and historical archaeological sites, will to the greatest extent practicable, be avoided and minimised. Where impacts are unavoidable, works shall be undertaken in accordance with the strategy outlined in the construction heritage management plan (moderately effective).	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 6 of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Non-Aboriginal heritage	NAH06	In relation to the house at 82 Campbell Street and terrace group at 28-44 Campbell Street the following would be undertaken: <ul style="list-style-type: none"> The buildings would be subject to a full archival recording following the NSW Heritage Division guidelines How to Prepare an Archival Recording (NSW Heritage Office, 2003) and Photographic recording of heritage items using film or digital capture (NSW Heritage Office, 2006) Consideration should be given as to whether elements of the houses could be salvaged and used to maintain or restore other properties managed by Roads and Maritime (somewhat effective). 	Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH07	In relation to Rudders Bond Store, the following would be undertaken: <ul style="list-style-type: none"> The bond store would be subject to a full archival recording following the NSW Heritage Division guidelines How to Prepare an Archival Recording (NSW Heritage Office, 2003) and Photographic recording of heritage items using film or digital capture (NSW Heritage Office, 2006). This would include a comparative analysis of the Rudders Bond Stores should be prepared against other laminated truss Symonds buildings in NSW and Australia Consideration would be given as to whether the selected laminated timber columns could be salvaged and re-erected and clad elsewhere within the St Peters interchange or the local area. The cladding and brick walls are not considered to be of heritage significance and are not included within the reuse proposal. The level of fabric salvage required, the appropriate methodology for salvage and identification of appropriate adaptive reuse and locations for reuse of these elements would be determined in consultation with Heritage Council, the NSW Heritage Division of OEH and the New M5 Design Panel, with advice from a suitably qualified specialist informed by the full archival recording prior to the demolition of the item Investigate options for documenting the history of the Ralph Symonds company and presenting it to a national audience, in partnership with stakeholders such as the City of Sydney and Powerhouse Museum. The focus would be on their development of innovative timber construction methods during and after World War II (somewhat effective). 	Design Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Non-Aboriginal heritage	NAH08	In relation to the Service Garage at 316 Princes Highway, the following would be undertaken: <ul style="list-style-type: none"> An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to the heritage item A photographic archival recording is undertaken prior to the current use ceasing. The archival recording should conform to the guidelines provided in How to prepare archival records (NSW Heritage Office, 2003) and Photographic recording of heritage items using film or digital capture (NSW Heritage Office, 2006). The archival recording should be lodged with the relevant local libraries and the State Library of NSW. The oral history should be prepared, which seeks to contact past and present employees as well as others with memories of the service station. The oral history should be lodged with the relevant local libraries and the State Library of NSW (somewhat effective). 	Pre-construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH09	Detailed mitigation and management measures would be developed for each heritage item directly impacted by the project with regard to vibration (surface and tunnelling) and settlement once final disturbance areas have been identified through detailed design. These mitigation and management measures would be included in the CEMP(s) for the project (highly effective).	Design	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH10	Surface works would adhere to safe working distances, and an existing condition survey report and program of monitoring would be undertaken to identify early potential risks at the following non-Aboriginal heritage items: <ul style="list-style-type: none"> Wolli Creek Culvert St Peters Public School, including interiors Terrace housing, including interiors (1273) Waugh and Josephson industrial buildings, former, showroom, offices and workshops, including interiors Town and Country Hotel, including interiors Group of Victorian Filigree and Victorian Italianate terrace houses – Narara, including interiors Terrace group 112 Water Board pump house, including Interior and substructure Industrial Building, 'Frank G Spurway' Former Alexandria Spinning Mills (highly effective). 	Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Non-Aboriginal heritage	NAH11	An existing condition survey report and program of monitoring would be undertaken to identify early potential risks at the Macdonaldtown Stormwater Channel #3 (highly effective).	Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH12	The following non-Aboriginal heritage properties would be considered for at property acoustic treatment: <ul style="list-style-type: none"> St Peters Public School, including interiors Terrace group I12 (highly effective). Acoustic treatments would be confirmed during detailed design, and would consider the principles of The Burra Charter (the Australia ICOMOS charter for places of Cultural Significance) (ICOMOS (Australia), 2013).	Design	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH13	Management measures for the Goodsell Estate Heritage Conservation Area would include: <ul style="list-style-type: none"> Landscaping, to mitigate the impacts of realigning and widening roads, as well as alterations to the existing stormwater detention basin Surface works would adhere to safe working distances An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to relevant structures within the conversation area and within 50 metres of the main alignment tunnels (highly effective). 	Design Pre-construction Construction Post-construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH14	Management measures for the Clemton Park Urban Conservation Area would include: <ul style="list-style-type: none"> Surface works would adhere to safe working distances An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to relevant structures within the conservation area Landscaping would provide screening of the Bexley Road South motorway operations complex from the Clemton Park Urban Conservation Area, once established (highly effective). 	Design Pre-construction Construction Post-construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Non-Aboriginal heritage	NAH15	<p>Management measures for the Pallamanna Parade Urban Conservation Area would include:</p> <ul style="list-style-type: none"> • Surface works would adhere to safe working distances • An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to relevant structures within the conservation area • Landscaping would provide screening of the project from the Pallamanna Parade Urban Conservation Area, once established (highly effective). 	<p>Design Pre- construction Construction</p> <p>Post- construction</p>	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).</p>
Non-Aboriginal heritage	NAH16	<p>The following management measures would be implemented with respect to Alexandra Canal:</p> <ul style="list-style-type: none"> • Monitoring during works to ensure vibration is not impacting the Alexandra Canal walls • Preparation of an archival recording of the Canal, involving both scale drawings and photography, prior to the removal of sandstone blocks • Numbering of sandstone blocks so that those displaced by the discharge points can be replaced in their previous locations • Stockpiling displaced sandstone blocks for use in repairs of other sections of the Alexandra Canal • Installation of heritage interpretation regarding the Canal in accordance with an interpretation plan (moderately effective) • Any rehabilitation or conservation works in the vicinity of these areas would be determined in consultation with Sydney Water, as the asset owner • Skilled trades people would be used for the proposed works along Alexandra Canal that involve direct interaction with the heritage item. 	<p>Design Construction</p>	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).</p>

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Non-Aboriginal heritage	NAH17	An interpretation plan would be prepared and implemented for: <ul style="list-style-type: none"> • Alexandra Canal and the industrial heritage of the area. This shall include installation of a heritage interpretation regarding the Canal in accordance with an interpretation plan • The St Peters Brickpit geological site, including: <ul style="list-style-type: none"> - Integrate the geological interpretation into the Sydney Park brickworks in consultation with City of Sydney, as the industrial counterpart to the geological history to tell a more complete story of historical land use in the area - Integrate the geological / palaeontological discovery of the <i>Paraclytosaurus davdi</i> - Retain an exposed section of the fresh shales and siltstones, including features associated with deposition of the sedimentary rocks, and later formed fractures such as joints and faults, if feasible and safe to do so for both landform stability and ongoing access for interpretation (moderately effective). 	Design Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH18	An archival recording of the St Peters brickpit geological site would be undertaken prior to and during the construction (highly effective).	Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Sections 6 and 7 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH19	An assessment and / or consultation with a palaeontologist to determine whether the project impact area has potential to contain further specimens of scientific interest (highly effective).	Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Sections 6 and 7 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH20	Approaches to appropriately manage impacts of the project to the individual contribution of views into and out from heritage properties and the long-term impact of construction would be detailed in a CEMP (highly effective). Individually tailored landscape treatments would be developed during detailed design to mitigate visual impacts at 2-34 Campbell Road, St Peters.	Design Pre-construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16). Landscape treatments will be addressed in the Urban Design and Landscape Plan, which will be submitted to DPE prior to commencement of any permanent works or landscaping.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Non-Aboriginal heritage	NAH21	The construction heritage management plan would include detailed procedures / strategies for the conservation and curation of any historical artefacts recovered during works (moderately effective).	Pre-construction Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Sections 4.2 and 6 of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Non-Aboriginal heritage	NAH22	Urban design and landscaping would be undertaken to manage visual impacts to the following additional non-Aboriginal heritage items: <ul style="list-style-type: none"> · Terrace housing (I273) · Southern Cross Hotel (I277) · Water Board pump house (I18) (highly effective). 	Design Construction Post-construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 of the Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16). Urban design and landscaping will be addressed in the Urban Design and Landscape Plan, which will be submitted to DPE prior to commencement of any permanent works or landscaping.
Biodiversity	B01	A Flora and Fauna Management Plan will be developed before construction and in accordance with Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011). The Plan will identify potential impacts to biodiversity and describe mitigation measures and environmental controls to be implemented during construction, including measures to protect biodiversity features which will be retained.	Pre-construction	Compliant	CDS-JV	A Construction Flora and Fauna Sub-plan (CFFSP; M5N-ES-PLN-PWD-0007) has been prepared in accordance with MCoA D68(d), and the RMS <i>Biodiversity Guidelines</i> (RTA 2011) and was approved by DPE on 20/07/16.
Biodiversity	B02	The removal of established vegetation will be minimised, where possible.	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6, controls FF11 and FF14, in the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).
Biodiversity	B03	Pre-clearance activities will be carried out in accordance with <i>Guide 1 Pre-clearing process of Roads and Maritime's Biodiversity Guidelines</i> (RTA, 2011). Pre-clearing surveys will be undertaken by a suitably qualified ecologist to identify the presence of: <ul style="list-style-type: none"> · Hollow-bearing trees · Threatened flora and fauna. 	Pre-construction Construction	Compliant	CDS-JV	Refer to Section, controls FF12, FF18 and FF19, in the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).
Biodiversity	B04	Trees will be removed in accordance with <i>Guide 4 – Clearing of Vegetation and Removal of Bushrock of Roads and Maritime's Biodiversity Guidelines</i> (RTA, 2011).	Construction	Compliant	CDS-JV	The Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) has been prepared in accordance with Guide 4 – Clearing of Vegetation and Removal of Bushrock of Roads and Maritime's Biodiversity Guidelines (RTA, 2011). This REMM is addressed in particular in Section 6.1 and 6.7.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Biodiversity	B05	Where vegetation clearance is required, exclusion zones will be established in accordance with <i>Guide 2 Exclusion Zones</i> of Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011).	Construction	Compliant	CDS-JV	The Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) has been prepared in accordance with Guide 4 – Clearing of Vegetation and Removal of Bushrock of Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011). This REMM is addressed in particular in Section 6.1 and 6.7.
Biodiversity	B06	Where reasonable and feasible, mature and hollow-bearing trees will be retained. Where this is not reasonable and feasible, nest boxes will be installed to mitigate the impacts of removing hollow bearing trees in accordance with Table 8.1 of <i>Guide 8 – Nest boxes</i> of Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011) at least one month prior to the commencement of construction	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6.1 and 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) for the methods to identify and retain habitat trees where feasible, and Section 7.2 and Appendix D for the replacement of habitat trees with nest boxes.
Biodiversity	B07	Locally indigenous species will be included as part of landscaping and rehabilitation works to promote native fauna habitat.	Design Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16). This requirement will also be addressed in more detail in the Urban Design and Landscape Plan (M5N-ES-PLN-PWD-0009), which will be submitted prior to the commencement of any permanent landscaping.
Biodiversity	B08	Should unexpected threatened flora or fauna be located at any time during construction, relevant works will cease in the area to prevent further harm to the individual. Should this occur, a suitably qualified ecologist will be engaged to advise on appropriate mitigation and management measures.	Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) for this requirement.
Biodiversity	B09	Any fauna handling would be undertaken by an appropriately licenced ecologist in accordance with <i>Guide 9 – Fauna handling</i> of Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011).	Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) for this requirement.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Biodiversity	B10	The Green and Golden Bell Frog Plan of Management Plan will be finalised and implemented to minimise and manage impacts to the Arncliffe key population. The Green and Golden Bell Frog Plan of Management Plan would be approved by the Commonwealth Department of the Environment and OEH, and would include: <ul style="list-style-type: none"> Management measures to be implemented at the Arncliffe construction compound (C7) and RTA Ponds to minimise and manage impacts to the Green and Golden Bell Frog habitat and key population during construction. Management measures relating to the enhancement of existing habitat at the Marsh Street Wetland Supplementary management measures for consideration to mitigate and minimise impacts to the Green and Golden Bell Frog. 	Construction	Compliant	WCX M5 AT CDS-JV	The Green and Golden Bell Frog Plan of Management – Arncliffe, has been finalised and was approved by DPE on 17/05/16.
Biodiversity	B11	Measures to mitigate potential water quality impacts during construction are outlined in Section 16.4 and Section 18.4 of the EIS.	Construction	Compliant	CDS-JV	Refer to the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16) and the Flood Mitigation Strategy (submitted to DPE 25/05/16). These are referenced in the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) for this requirement.
Biodiversity	B12	Works within or near aquatic habitats and riparian areas will be managed in accordance with <i>Roads and Maritime's Guide 10 – Aquatic habitats and riparian zones</i> and <i>Guidelines for Controlled Activities on Waterfront Land</i> (DPI, 2012a).	Construction	Compliant	CDS-JV	The Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005-04; approved 15/07/16) and the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) include these guidelines as a control measure.
Biodiversity	B13	Works within aquatic habitats or riparian zones would be undertaken to limit impacts on aquatic flora and fauna, and their habitats, and impacts on riparian areas. This would be undertaken in accordance with Guide 10 of the <i>Biodiversity Guidelines</i> and <i>Guidelines for Controlled Activities on Waterfront Land</i> (DPI, 2012a).	Construction	Compliant	CDS-JV	The Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005-04; approved 15/07/16) and the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) include these guidelines as a control measure.
Biodiversity	B14	Where possible, construction activities would minimise disturbance to waterways and riparian land.	Design Construction	Compliant	CDS-JV	The Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005-04; approved 15/07/16) and the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) include these guidelines as a control measure.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Biodiversity	B15	Stockpiles would be located outside riparian corridors.	Construction	Compliant	CDS-JV	Section 3.1 – Consultation of Stormwater Infrastructure Alexandra Canal and Section 7 – Mitigation and Management Actions of the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005; approved 15/07/16), and Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) refers to this REMM.
Biodiversity	B16	Weeds within the construction footprint will be actively managed prior to the clearance of vegetation. All weed material cleared from within the construction footprint of the project will be disposed of at a facility licensed to receive green waste.	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).
Biodiversity	B17	Vegetation within the road reserve adjacent to areas to be cleared will be managed in accordance with <i>Guide 6 – Weed Management</i> and <i>Guide 10 – Aquatic Habitats and Riparian Zones of Roads and Maritime's Biodiversity Guidelines</i> (RTA, 2011) to reduce the introduction and spread of noxious weed species.	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).
Biodiversity	B18	Landscaping and revegetation works will be undertaken using weed-free topsoil in accordance with the project's urban design concept plan.	Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).
Biodiversity	B19	A hygiene protocol will be implemented as part of the CEMP(s) for the project to prevent the spread and exacerbation of the Chytrid Fungus in accordance with <i>Guide 7 – Pathogen Management of Roads and Maritime's Biodiversity Guidelines</i> (RTA, 2011).	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).
Biodiversity	B20	A risk assessment process will be used for each construction compound to determine the need to clean machinery prior to entering	Construction	Compliant	CDS-JV	This requirement will be addressed in an Environmental Work Method Statement (EWMS) to be implemented on site.
Biodiversity	B21	Machinery will be cleaned prior to entering the construction compound sites.	Construction	Compliant	CDS-JV	This requirement will be addressed in an Environmental Work Method Statement (EWMS) to be implemented on site.
Biodiversity	B22	Pathogens will be identified as part of pre-clearing inspections. In the event that pathogens are identified within the construction footprint, appropriate mitigation measures will be identified by an ecologist and implemented as part of the CEMP(s) in accordance with <i>Guide 7 – Pathogen Management of Roads and Maritime's Biodiversity Guidelines</i> (RTA, 2011).	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6.7 of the Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Biodiversity	OpB01	A management plan will be developed and implemented to identify and mitigate potential ongoing impacts to biodiversity, including procedures for: <ul style="list-style-type: none"> Management of weeds Management, maintenance and rehabilitation of riparian land disturbed by the project and riparian areas associated with the discharge of treated water Maintenance of nest boxes 	Operation	N/A	CDS-JV WCX M5 AT	The Construction Flora and Fauna Sub-plan (M5N-ES-PLN-PWD-0007; approved 20/07/16) will be updated prior to the commencement of permanent rehabilitation and landscaping works to address rehabilitation details. This requirement also relates to the operational phase and will be addressed in the Operational Environmental Management Plan and reported on in the pre-operation compliance report.
Greenhouse Gas	GHG1	Prepare a <u>Greenhouse Gas Emissions Strategy and Management Plan</u> for the project.	Design	Compliant	CDS-JV	An Energy Efficiency & Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021) has been prepared as part of the Sustainability Plan (M5N-ES-PLN-PWD-0020-01) to meet CoA B75.
Greenhouse Gas	GHG2	Undertake an updated greenhouse gas assessment based on detailed design.	Design	Compliant	CDS-JV	This is addressed in Section 3.1 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).
Greenhouse Gas	GHG3	The emissions intensity of significant construction materials specified in the design of the project would be assessed and, where feasible and in compliance with technical specifications, low emission construction materials would be used.	Design	Compliant	CDS-JV	This is addressed in Section 3.1 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).
Greenhouse Gas	GHG4	Where feasible, recycled content road construction materials such as recycled aggregates in road pavement and surfacing, or similar, would be used.	Design	Compliant	CDS-JV	This is addressed in Section 4 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).
Greenhouse Gas	GHG5	The fuel efficiency of construction plant and equipment would be assessed before selection and, where feasible and reasonable, equipment with the highest fuel efficiency or equipment that uses lower greenhouse gas intensive fuel such as biofuels (eg biodiesel, ethanol) would be used.	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 4.1 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).
Greenhouse Gas	GHG6	Project planning would be undertaken to ensure that the site vehicle movements and construction activities are efficient, to avoid double handling of materials and unnecessary fuel use where possible.	Design	Compliant	CDS-JV	This is addressed in the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).
Greenhouse Gas	GHG7	Locally produced goods and services would be procured where feasible and cost effective to reduce transport fuel emissions.	Design Construction	Compliant	CDS-JV	This is addressed in Section 4 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).
Greenhouse Gas	GHG8	At least six per cent of construction energy required for the project would be sourced where possible from an accredited GreenPower energy supplier	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 4 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Greenhouse Gas	GHG9	Where possible, and fit for purpose, spoil would be beneficially re-used within the project before off-site re-use or disposal options are investigated. A <u>spoil management strategy</u> would be developed for the project prior to the commencement of construction and would identify spoil disposal sites and the management of excess spoil.	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 5 of the Construction Spoil Management Plan (M5N-PM-PLN-PWD-0002-00).
Greenhouse Gas	GHG10	Waste would be diverted from landfill, including diversion of spoil, construction and demolition waste, and commercial and industrial waste, where reasonable and feasible. The management of waste would be considered as part of the preparation of the CEMP for the project, detailing the appropriate procedures for waste management.	Design Construction	Compliant	CDS-JV	This is addressed in Section 5 of the Construction Spoil Management Plan (M5N-PM-PLN-PWD-0002-00).
Greenhouse Gas	OpGHG 1	The main alignment tunnels would be designed to minimise fuel consumed by vehicles using the road, for example through the provision of a vertical alignment that allows consistent vehicle speeds to be maintained.	Design	Compliant	CDS-JV	The tunnel road gradient has been minimised in accordance with RMS design documents and specifications to maximise fuel efficiency and reduce emissions.
Greenhouse Gas	OpGHG 2	A life cycle assessment would be undertaken as part of the detailed design in order to select mechanical and electrical systems with increased energy efficiencies, where reasonable and feasible, such as the tunnel ventilation system, tunnel lighting, water treatment systems and electronic toll and surveillance systems.	Design	Compliant	CDS-JV	Refer to the Sustainability Management Plan (M5N-ES-PLN-PWD-0020). In particular, refer to the identified opportunities table.
Greenhouse Gas	OpGHG 3	Low carbon energy generation options would be investigated as part of the detailed design process in order to reduce the demand on mains electricity and generate renewable energy onsite, where feasible. At least six per cent of energy required for the project would be sourced from an accredited GreenPower energy supplier, where possible.	Design	Compliant	CDS-JV	Refer to the Sustainability Management Plan (M5N-ES-PLN-PWD-0020). In particular, refer to the identified opportunities table.
Aboriginal heritage	AH 1	Vibration generating activities, including blasting would be conducted in a manner to ensure vibration levels do not exceed three millimetres per second at potential Aboriginal heritage site SR-OVRH-1.	Construction	Compliant	CDS-JV	Refer to Sections 5.1 and 6.1 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Aboriginal heritage	AH 2	Vibration monitoring would be carried out during vibration intensive works within 50 metres of SR-OVRH-1. The need for vibration monitoring would be informed by a preliminary screening of activities at this location to identify what activities have the potential for vibration at this location. The preliminary screening and works requiring monitoring would be contained within the CEMP.	Pre-construction Construction	Compliant	CDS-JV	Refer to Sections 5.1, 6.1 and 7 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Aboriginal heritage	AH 3	A baseline condition assessment would be completed by a qualified structural engineer for Aboriginal site SR-OVR-1 before construction commences, followed by a condition assessment immediately following significant vibration and with recommendations for remediation measures if required.	Pre-construction Construction	Compliant	CDS-JV	Refer to Sections 5.1, 6.1 and 7 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006; submitted to DPE 30/05/16).
Aboriginal heritage	AH 4	If an Aboriginal object(s) is discovered during construction it would be managed in accordance with the <i>Standard Management Procedure: Unexpected Heritage Items</i> (Roads and Maritime Services, 2015), including: <ul style="list-style-type: none"> • Ceasing works in the vicinity of the object(s), where there is the potential to directly or indirectly impact on the object(s) • Notifying the construction Environmental Representative and OEH of the discovery • Engaging a qualified archaeologist to determine the nature, extent and scientific significance of the object(s) • Developing management recommendations in consultation with the qualified archaeologist, OEH and RAPs. 	Construction	Compliant	CDS-JV	Refer to Section 6.2 and Appendix A, RMS Management Procedure: Unexpected Heritage Items, of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006; submitted 30/05/16).
Aboriginal heritage	AH 5	In order to manage the potential discovery of an Aboriginal object(s) during pile installation adjacent to Alexandra Canal the following strategy would be implemented: <ul style="list-style-type: none"> • Geotechnical coring at each pile location by a geotechnical engineer to obtain intact sediment samples to a depth of around seven metres • Inspection of obtained sediment samples by a qualified archaeologist in consultation with the geotechnical engineer in order to characterise the soil profile and identify any Aboriginal archaeological materials Should Aboriginal archaeological material be present within one or more core samples, management would occur in accordance with the Standard Management Procedure: Unexpected Heritage Items (Roads and Maritime, 2015). 	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 6.2 and Appendix A, RMS Management Procedure: Unexpected Heritage Items, of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Aboriginal heritage	AH 6	If human remains are discovered during construction would be managed in accordance with the <i>Standard Management Procedure: Unexpected Heritage Items</i> (Roads and Maritime Services, 2015), including: <ul style="list-style-type: none"> • Ceasing works in the vicinity of the remains, with the potential to directly or indirectly impact on the remains • Notifying the construction Environmental Representative, OEH and NSW Police of the discovery • Following directions from the NSW Police and / or OEH, as relevant, depending on the nature of the remains and the outcomes of forensic investigations. 	Construction	Compliant	CDS-JV	Refer to Section 6.2 and Appendix A, RMS Management Procedure: Unexpected Heritage Items, of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006).
Resource use and waste minimisation	WM01	Construction energy consumption would be reduced through initiatives such as: <ul style="list-style-type: none"> • Use of roadheaders, which can excavate a more efficient shape for the road tunnel than tunnel boring machines, resulting in less spoil generation and less energy consumption for handling, management and transport of spoil • Local materials procurement where feasible and cost effective to reduce fuel consumption for transport • Selection of efficient construction plant and equipment where possible • Use of recycled materials where feasible • Efficient practices on site (for example, switching off engines when not in use) • Use of energy efficient or solar powered lighting for temporary construction facilities • Investigating the use of biofuel for construction vehicles. 	Construction	Compliant	CDS-JV	This is addressed by Section 4 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021), part of the project's Sustainability Plan (M5N-ES-PLN-PWD-0020).
Resource use and waste minimisation	WM02	Where feasible and reasonable, construction material would be sourced from within the Sydney region.	Pre-construction Construction	Compliant	CDS-JV	This is addressed by Section 5.6, Element 6 of the Sustainability Plan (M5N-ES-PLN-PWD-0020).
Resource use and waste minimisation	WM03	Unnecessary resource consumption would be avoided by making realistic predictions of the required quantities of resources such as construction materials	Construction	Compliant	CDS-JV	This is addressed by Section 5.6, Element 6 of the Sustainability Plan (M5N-ES-PLN-PWD-0020-01).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Resource use and waste minimisation	WM04	Resource recovery would be applied to the management of construction waste and would include: <ul style="list-style-type: none"> • Recovery of resources for reuse-reusable materials generated by the project would be segregated for reuse either on-site or off-site where possible, including the reuse of the major waste streams (VENM and ENM) • Recovery of resources for recycling - recyclable resources (such as metals, plastics and other recyclable materials) generated during construction and demolition • Resources would be segregated for recycling • These materials would then be sent to an appropriate recycling facility for processing. • Recovery of resources for reprocessing -cleared vegetation would be mulched or chipped on-site and used for landscaping, in the absence of a higher beneficial use being identified. 	Construction	Compliant	CDS-JV	Refer to Sections 5 and 6 of the Construction Waste and Resource Sub-Plan (CWRSP; M5N-ES-PLN-PWD-0008; approved by DPE on 15/07/16).
Resource use and waste minimisation	WM05	Where reasonable and feasible, Packaging Take Back arrangements would be implemented with suppliers.	Construction	Compliant	CDS-JV	This requirement is addressed in the project's procurement strategy and will be reported on during the quarterly construction compliance reports.
Resource use and waste minimisation	WM06	Wastes would be managed (classified, handled and stored) and reused / recycled / disposed of in accordance with relevant State legislation and government policies including the POEO Act, <i>Waste Avoidance and Resource Recovery Act 2001</i> , <i>Waste Avoidance and Resource Recovery Strategy 2014-2021</i> (EPA, 2014b), and the sustainable procurement objective of the <i>WestConnex sustainability strategy</i> (WestConnex Delivery Authority, 2015).	Construction	Compliant	CDS-JV	This is addressed in Sections 5 and 6 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16) and Section 5.6, Element 6, of the Sustainability Plan (M5N-ES-PLN-PWD-0020).
Resource use and waste minimisation	WM07	A Construction Waste Reuse Recycling and Energy plan (CWRREMP) would be prepared as part of the CEMP detailing appropriate procedures for waste management. The Construction Waste Recycling Reuse Environment Management Plan would ensure waste disposal and energy use is minimised by tracking and reporting performance and applying corrective action as required.	Construction	Compliant	CDS-JV	This is addressed in the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16) and Section 5.6, Element 6 of the Sustainability Plan (M5N-ES-PLN-PWD-0020).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Resource use and waste minimisation	WM08	Wastes would be managed using the waste hierarchy principles of: <ul style="list-style-type: none"> • Avoidance of unnecessary resource consumption to reduce the quantity of waste being generated. • Recover resources for reuse on-site or off-site for the same or similar use, without reprocessing. • Recover resources through recycling and reprocessing so that waste can be processed into a similar non-waste product and reused. • Disposal of residual waste. 	Construction	Compliant	CDS-JV	This is addressed in Sections 5 and 6 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16) and Section 5.6, Element 6 of the Sustainability Plan (M5N-ES-PLN-PWD-0020).
Resource use and waste minimisation	WM09	Residual waste would be disposed of to a suitably licensed landfill or waste management facility where there are no other feasible and reasonable options for waste avoidance, reuse or recycling. Waste materials requiring removal from the site would be classified, handled and stored in accordance with the <i>Waste Classification Guidelines: Part 1 Classifying Waste</i> (EPA, 2014a) until collection by a contractor for disposal.	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 6 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16).
Resource use and waste minimisation	WM10	Off-site reuse of waste would comply with relevant NSW Environment Protection Authority resource recovery exemptions and requirements.	Construction	Compliant	CDS-JV	This is addressed in Section 6 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16).
Resource use and waste minimisation	WM11	Asbestos handling and management would be undertaken in accordance with the project's Asbestos Management Plan and relevant legislation, policies and standards: <ul style="list-style-type: none"> • Work Health and Safety Act 2011 • Code of Practice for the Safe Removal of Asbestos 2nd Edition (NOHSC, 2005a). • Code of Practice for the Management and Control of Asbestos in Workplaces (NOHSC, 2005b). • Protection of the Environment Operations (Waste) Regulation 2014 – Part 7 Transportation and management of asbestos waste. • Australian Standard AS2601:1991 Demolition of Structures. 	Pre-construction	Compliant	CDS-JV	This is addressed by the project's Manage Work with Asbestos Procedure (M5N-ES-PRC-PWD-0037), and Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036-00). These procedures are referenced in the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16).
Resource use and waste minimisation	WM12	Measures would be implemented to manage stockpiles such as potentially locating stockpiles outside of overland flowpaths, riparian corridors and finished and contoured so as to minimise loss of material in flood or rainfall events. Stockpiles left exposed and undisturbed for longer than 28 days would be stabilised by compaction then either sprayed with suitable tackifier, covered with anchored fabrics, or seeded with sterile grass.	Construction	Compliant	CDS-JV	Refer to Section 7.1, controls P1 and P4, of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Resource use and waste minimisation	WM13	A <u>Spoil Management Strategy</u> would be developed prior to the commencement of construction and implemented during construction. The strategy would identify spoil disposal sites and describe the management of spoil on-site and during off-site transport.	Pre-construction	Compliant	CDS-JV	This is addressed by the project's Spoil Management Plan (M5N-PM-PLN-PWD-0002). The Spoil Management Plan has been provided to the relevant councils (25/05/16) for consultation and will be updated as necessary and submitted to DPE for approval prior to the commencement of tunnelling activities, in accordance with CoA D51.
Resource use and waste minimisation	WM14	Where possible and fit for purpose, spoil would be beneficially reused within the project before off-site reuse or disposal options are pursued.	Construction	Compliant	CDS-JV	Refer to Section 5.3 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16). This requirement is also addressed in the project's Spoil Management Plan (M5N-PM-PLN-PWD-0002), to be submitted to DPE prior to the commencement of tunnelling activities in accordance with CoA D51.
Resource use and waste minimisation	WM15	Before being transported from construction sites, excavated spoil would be classified in accordance with the <i>Waste Classification Guidelines: Part 1 Classifying Waste</i> (EPA, 2014a) to ensure appropriate reuse or disposal.	Construction	Compliant	CDS-JV	Refer to Section 5.1 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16). This requirement is also addressed in the project's Spoil Management Plan (M5N-PM-PLN-PWD-0002), to be submitted to DPE prior to the commencement of tunnelling activities in accordance with CoA D51.
Resource use and waste minimisation	WM16	Feasible and reasonable opportunities for wastewater reuse on-site or for construction purposes would be pursued (such as dust suppression both in the tunnels and for surface works).	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 7.1, controls G11, S4 and B4, of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16), and Section 5.3 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16).
Resource use and waste minimisation	WM17	Wastewater not used on-site would be discharged into the local stormwater system in accordance with the requirements of an environment protection licence issued for the project.	Construction	Compliant	CDS-JV	Refer to Section 7.1, controls G11, S4 and B4, of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16), and Section 5.3 of the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Resource use and waste minimisation	WM18	An Unexpected Finds Protocol would be implemented in the event of encountering previously unidentified area(s) or types of contaminated material. Where this happens, all relevant work would cease in the vicinity of the discovery in accordance with a unsuitable spoil management contingency procedure which would be included as part of the Spoil Management Strategy for the project. Relevant works would not recommence until the need for and scope of remedial action(s), if required, is identified in accordance with the requirements of the <i>Contaminated Land Management Act 1997</i> .	Construction	Compliant	CDS-JV	This requirement is addressed in the project's Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036), which is referenced in the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008; approved 15/07/16). The Spoil Management Plan (M5N-PM-PLN-PWD-0002), to be submitted to DPE prior to the commencement of any tunnelling activities will also address this requirement.
Resource use and waste minimisation	OPWM01	Wastes would be managed and disposed of in accordance with relevant State legislation and government policies including the POEO Act, <i>Waste Avoidance and Resource Recovery Act 2001</i> , <i>Waste Avoidance and Resource Recovery Strategy 2014-2021</i> (EPA, 2014b), and the sustainable procurement objective of the <i>WestConnex sustainability strategy</i> (WestConnex Delivery Authority, 2015).	Operation	N/A	CDS-JV	This requirement relates to the operational phase and will be reported on in the pre-operation compliance report.
Resource use and waste minimisation	OPWM02	Opportunities for reuse of wastewater would be considered in preference to discharge to the local stormwater system.	Operation	N/A	CDS-JV	This requirement relates to the operational phase and will be reported on in the pre-operation compliance report.
Resource use and waste minimisation	OPWM03	In order to reduce demand on local water supplies, options would be investigated for providing water required for operation of the deluge system from wastewater produced through the tunnel drainage system where it meets appropriate quality parameters.	Operation	N/A	CDS-JV	This requirement relates to the operational phase and will be reported on in the pre-operation compliance report.
Climate change and risk adaptation	CC01	The risk associated with future climate change on the project would be further considered during detailed design.	Pre-construction	Compliant	CDS-JV	This is addressed in the Sustainability Plan (M5N-ES-PLN-PWD-0020), Section 2.2 – Stage 2: Integrating Sustainability into Design, Construction, Procurement and Other Processes
Climate change and risk adaptation	CC02	Implement adaptation measures to address high and extreme rated risks identified in the subsequent detailed climate change risk assessment.	Pre-construction	Compliant	CDS-JV	This is addressed in the Sustainability Plan (M5N-ES-PLN-PWD-0020), Element 14 – Urban Design and Landscape
Climate change and risk adaptation	CC03	Where extreme, high or medium risks have been identified in this assessment or subsequent climate change risk assessments, a review of the existing design policies, specifications or practices would be undertaken to consider the impacts of climate change.	Pre-construction	Compliant	CDS-JV	This is addressed in the Sustainability Plan (M5N-ES-PLN-PWD-0020), Element 14 – Urban Design and Landscape

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Hazard and risks	HR01	Site-specific hazard and risk management measures would be included within the CEMP, which may include items such as: <ul style="list-style-type: none"> • Details of the hazards and risk associated with construction activities for both surface and subsurface works • Procedures to comply with legislative and industry standard requirements • Contingency plans, as required. 	Pre-construction Construction	Compliant	CDS-JV	Refer to Section 4 and Appendix D of the Construction Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-0001; submitted to DPE 30/05/16). This is also addressed throughout the sub-plans of the CEMP (Part C), submitted to DPE 26-31/05/16.
Hazard and risks	HR02	Storage of dangerous goods and hazardous materials would occur in accordance with suppliers' instructions and relevant Australian Standards and may include bulk storage tanks, chemical storage cabinets / containers or impervious bunds.	Construction	Compliant	CDS-JV	Refer to Section 7.1, controls C1 and C3, of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).
Hazard and risks	HR03	Storage, handling and use of dangerous goods and hazardous substances would be in accordance with the <i>Work Health and Safety Act 2011</i> and the <i>Storage and Handling of Dangerous Goods Code of Practice</i> (WorkCover NSW, 2005).	Construction	Compliant	CDS-JV	Refer to Section 7.1, controls C1, C3 and C14 of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).
Hazard and risks	HR04	Secure, bunded areas would be provided around storage areas for oils, fuels and other hazardous liquids.	Construction	Compliant	CDS-JV	Refer to Section 7.1, control C3 of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).
Hazard and risks	HR05	Bunds would be provided around activities such as vehicle refuelling, servicing, maintenance or wash-down, where there is a potential for spills and contamination.	Construction	Compliant	CDS-JV	Refer to Section 7.1, control C12 of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).
Hazard and risks	HR06	Material Safety Data Sheets would be obtained for dangerous goods and hazardous substances stored onsite prior to their arrival.	Construction	Compliant	CDS-JV	Refer to Section 7.1, control C13, of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).
Hazard and risks	HR07	Transport of dangerous goods and hazardous substances would be conducted in accordance with relevant legislation and codes, including the <i>Dangerous Goods (Road and Rail Transport) Regulation 2014</i> and the <i>Australian Code for the Transport of Dangerous Goods by Road and Rail</i> (National Transport Commission, 2008).	Construction	Compliant	CDS-JV	Refer to Section 7.1, control C15, of the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16).
Hazard and risks	HR08	The project would be constructed in line with Civil Aviation Safety Authority requirements, to the satisfaction of the Secretary of the Commonwealth Department of Infrastructure and Regional Development.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Element 3 Legal and other Requirements, of the Construction Environmental Management Plan (M5N-ES-PLN-PWD-0001; submitted to DPE 30/5/16).

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
Hazard and risks	HR09	The project would be constructed in accordance with the requirements of the Civil Aviation Safety Authority and the <i>Sydney Airport Master Plan 2033</i> , with respect to lighting used during construction.	Pre-construction Construction	Compliant	CDS-JV	This requirement is addressed in Element 3 Legal and other Requirements, of the Construction Environmental Management Plan (M5N-ES-PLN-PWD-0001; submitted to DPE 30/5/16).
Hazard and risks	OpHR01	The fire and safety systems and measures adopted for the project would be equivalent to or exceed the fire safety measures recommended by NFPA502 (American), PIARC (European), AS4825 (Australian) and Roads and Maritime standards.	Design Operation	N/A	CDS-JV WCX M5 AT	These requirements are incorporated in the Fire Protection Designs M5N-AJV-DPK-800-700-FR
Hazard and risks	OpHR02	Storage of dangerous goods and hazardous materials would occur in accordance with supplier's instructions and relevant Australian standards and may include bulk storage tanks, chemical storage cabinets / containers or impervious bunds.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR03	Storage, handling and use of dangerous goods and hazardous substances would be in accordance with the <i>Work Health and Safety Act 2011</i> and the <i>Storage and Handling of Dangerous Goods Code of Practice</i> (WorkCover NSW, 2005).	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR04	Secure, bunded areas would be provided around storage areas for oils, fuels and other hazardous liquids. Impervious bunds would be of sufficient capacity to contain at least 110 per cent of the volume of the largest stored container.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR05	Bunds would be provided around activities such as vehicle refuelling, servicing, maintenance or wash-down, where there is a potential for spills and contamination.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR06	Material Safety Data Sheets would be obtained for dangerous goods and hazardous substances stored onsite prior to their arrival.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR07	The transport of dangerous goods and hazardous substances would be prohibited through the main alignment tunnels and on and off-ramp tunnels.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR08	An Incident Response Plan would be developed and implemented in the event of an accident or incident.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
Hazard and risks	OpHR09	The response to incidents within the motorway would be managed in accordance with the memorandum of understanding between Roads and Maritime and the NSW Police Service, NSW Rural Fire Service, NSW Fire Brigade and other emergency services.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.

Pre-Construction Compliance Report



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence
<i>Hazard and risks</i>	OpHR10	The detailed design of the project substations would ensure that the exposure limits for the general public suggested by the Draft Radiation Standard (<i>Australian Radiation Protection and Nuclear Safety Agency, 2006</i>) would not be exceeded at the boundary of the substation sites.	Design Operation	N/A	CDS-JV WCX M5 AT	This requirement will be addressed in the Electrical HV - HV Power & Distribution System Design
<i>Hazard and risks</i>	OpHR11	The project would be operated in line with Civil Aviation Safety Authority requirements, to the satisfaction of the Secretary of the Commonwealth Department of Infrastructure and Regional Development.	Operation	N/A	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.
<i>Hazard and risks</i>	OpHR12	Aviation hazard lighting, building lighting and surface road lighting would be designed and operated in accordance with the requirements of the Civil Aviation Safety Authority and the <i>Sydney Airport Master Plan 2033</i> .	Design Operation	N/A	CDS-JV WCX M5 AT	This requirement will be addressed in the Tunnel Roadway Lighting and Non-Roadway lighting designs.
<i>Cumulative impacts</i>	CI01	Consultation would be undertaken with local communities potentially affected by the impacts of multiple projects in addition to the project.	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 7 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008; approved by DPE on 27/07/16).
<i>Cumulative impacts</i>	CI02	Where relevant, consultation would be undertaken with proponents of other nearby developments to increase the overall awareness of project timeframes and impacts.	Pre-construction Construction	Compliant	CDS-JV	This is addressed in Section 7 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008; approved 27/07/16).

Pre-Construction Compliance Report



Appendix C: Glossary of terms

Term / acronym	Definition
BMS	Blast Management Strategy
CEMP	Construction Environmental Management Plan
CoA	Minister's Conditions of Approval
CDS-JV	CPB Contractors, Dragados, and Samsung joint venture
CTP	Compliance Tracking Program
D&C	Design and construct
DP&E	NSW Department of Planning and Environment
EIS	Environmental impact statement
EMS	Environmental management system
ER	Environmental Representative
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	NSW Environment Protection Authority
EPL	Environment protection licence
HARD	Historical Archaeological Research Design
Keystone	A web-based document management system that provides the primary document management application for CDS-JV on the project and will be used to manage correspondence, design documentation, electronic distribution and approval processes, records and identified records and quality documentation.
PCCR	Pre-Construction Compliance Report
PIRMP	Pollution Incident Response Management Plan
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
Project	WestConnex New M5 project
Project Company	WCX M5 AT
REMM	Revised environmental management measures, included in the Submissions and Preferred Infrastructure Report
Roads and Maritime	Roads and Maritime Services
SMC	Sydney Motorway Corporation, formerly WestConnex Delivery Authority
SH&E	Safety, Health & Environment
SPIR	Submissions [and Preferred Infrastructure] Report
SSI	State significant infrastructure

Pre-Construction Compliance Report



Term / acronym	Definition
Synergy	<p>Synergy is a safety and environmental reporting application and consists of the following modules:</p> <ul style="list-style-type: none"> • SHE Management – events including: incidents, near hits, report only, hazards, stakeholder contacts, regulatory visits, drug and alcohol positive tests • Metrics – work hours, number of people, environmental data such as materials, water, energy and wastes, etc. Campaigns can be tailored to drive specific lead indicators. • Compliance – general applicability, typically used to track conditions and aid in reporting <p>Actions – Assign and track actions.</p>
WCX	WestConnex
WCX M5 AT	Project company