

# Quarterly Construction Compliance Report: No. 6

## 25 November 2017 – 24 February 2018

Project Name: WestConnex New M5

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### Document Approval

Rev.	Date	Prepared by	Reviewed by	Recommended by	Approved by	Remarks
00	03/05/18	CDS-JV	WCX M5 AT, RMS, ER			
Signature:						

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## 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 WCX M5 AT and RMS input and review and ER review

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## 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.

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## 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 (Revision 3, dated 22/12/2016) 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).	
2	a)	Kingsgrove construction compounds (C1, C2 and C3)	Continuation of Stage 1 (establishment) activities, and commencement of 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)	
3		Tunnelling - all project sites.	Commencement of tunnelling works including excavation with roadheaders, tunnel fit-out and commissioning works.
4	a)	Local Roads Upgrade construction compounds (C12-C13).	Establishment of temporary construction compounds (C12-C13).
	b)	Local Roads Upgrade construction compounds (C12-C13) and construction sites.	Temporary construction activities at the local roads construction compounds and sites
	c)	Local Roads Upgrade construction compounds (C12-C13) and construction sites.	Permanent construction activities and rehabilitation activities at the Euston Road, Bourke Road, Gardeners Road and bridge construction sites, as well as permanent non-drainage works at Campbell Street and Campbell Road construction sites.

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Stage	Sub-stage	Project location	Description
	d)	Local Roads Upgrade construction compounds (C12-C13) and construction sites.	Permanent drainage works and rehabilitation activities at Campbell Street and Campbell Road construction sites, as well as demobilisation at all Local Road Upgrade sites.

The key distinguishing feature of Stage 2 is the commencement of construction as defined under the Infrastructure Approval. Stage 3 comprises tunnelling activities, which includes roadheader excavation, tunnel fit-out and commissioning. Stage 4 comprises the commencement of works for the Local Road Upgrades.

Stage 1 activities commenced 9 June 2016, Stage 2 activities commenced 24 August 2016, Stage 3 activities commenced 30 November 2016 and Stage 4 commenced 3 January 2017.

## 1.3 Purpose

The purpose of this Quarterly Construction Compliance Report Issue No. 6 (QCCR6) is to comply with CoA A14(c)(ii) 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 construction phase conditions and requirements. Subsequent Quarterly Construction Compliance Reports will continue to be prepared and submitted every three months subsequent to this QCCR.

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 QCCR6 are provided in Table 2.

QCCR6 is the sixth construction compliance report for the construction phase and reports on the sixth quarter of construction, 25 November 2017 – 24 February 2018. A Pre-Construction Compliance Report (PCCR) was submitted to the Secretary, DP&E prior to the commencement of construction to detail status against pre-construction project requirements.

## 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 QCCR6 is separate from the CTP and CEMP, but is part of a suite of environmental management documents prepared for the New M5 project.

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## 2. Program requirements

This QCCR6 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 that relate to the quarterly construction compliance report

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:	The Staging Report has been updated (Rev 3) and was provided to the Secretary on 22/12/2016.
(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.	QCCR6 satisfies this condition for the sixth quarter of construction and supports the Staging Report. This QCCR6 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 <b>Compliance Tracking Program</b> 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:  (ii) quarterly Construction Compliance Reports, for the duration of construction,	QCCR6 satisfies this condition for the sixth quarter of construction. Subsequent quarterly construction compliance reports will be submitted for the duration of construction.

### 2.1 Assessment under the Instrument of Approval and REMMs

The project QCCRs are prepared in accordance with CoA A14 and are required to address the project requirements contained in the Minister's Conditions of Approval and the Revised Environmental Management Measures (REMMs) identified 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 QCCR.

Table 3: Assessment criteria for compliance

Status	Description
<b>Compliant</b>	The intent and all specific requirements of the consent conditions have been met.
<b>Verification</b>	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.

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Status	Description
<b>Non-compliant</b>	The intent or one or more specific requirements of the conditions or management measures have not been met.
<b>Administrative non-compliance</b>	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).
<b>Not triggered</b>	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.
<b>Observation</b>	An observation made or improvement opportunity has been identified.

## 2.2 Department of Planning and Environment notification

CDS-JV commenced construction activities (Stage 2) on 24 August 2016, as defined by the Instrument of Approval in accordance with the conditional approval of the CEMP, provided by DP&E on 4 August 2016. Commencement of construction at the remaining sites has also occurred subsequent to the relevant safety and environmental approvals/consents being obtained, including the satisfaction of CEMP conditions as provided in the DP&E letter of approval for the CEMP (4 August 2016).

RMS provided written notification to the Secretary prior to the commencement of construction, and prior to the commencement of each subsequent stage. Notification will also be provided prior to the commencement of operation. CDS-JV have submitted an updated Staging Report to the Secretary that provides compliance status against each condition, as required by CoA A10, prior to the commencement of Stage 2, Stage 3 and Stage 4 activities.

## 2.3 Periodic review

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

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CoA ref	Required monitoring	Where addressed
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)
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

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CoA ref	Required monitoring	Where addressed
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 Flora and Fauna 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
<b>Operational phase</b>		
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
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	OEMP

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CoA ref	Required monitoring	Where addressed
	managed and monitored to meet acceptable outcomes.	
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 QCCR6 provides the sixth construction phase compliance report for the project against the CoA and REMMs. Subsequent construction-phase compliance reports will be undertaken every three months for the duration of construction. A final report for construction-related compliance will be undertaken prior to the commencement of operation.

Input and review from the Environmental Representative and WCX M5 AT will be required prior to submission to the Secretary for all construction compliance reporting. Submission of the QCCR to DP&E will be targeted for the end of the month following that identified in Table 5.

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

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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	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 / November 2016 February 2017 May 2017 August 2017 November 2017 February 2018 May 2018 August 2018 November 2018 February 2019 May 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 reporting period. Appendix B contains the details of each REMM and identifies the timing and approval details as relevant to the reporting period. Appendix C contains the complaints register for the reporting period as required by CoA C4.

## 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 <sup>th</sup> Business Day of each month	D&C Deed	Environment and Sustainability Manager	WCX M5 AT; Roads and Maritime; Independent Certifier; parent companies

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Report	Details	Frequency	Standard	Responsibility	Recipient of report
Environmental Representative monthly report	Report on <ul style="list-style-type: none"> <li>the Environmental Representative's actions and decision on matters specified in CoA D1 for the preceding month</li> <li>of site environmental performance following routine inspections</li> </ul>	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

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## 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 WXC 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.

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Table 8: Additional audit requirements identified in the CoA

CoA ref	Audit details	Recipient of the audit report	Where addressed
<b>Construction phase</b>			
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 Contaminated Land 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
<b>Operational phase</b>			
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	Operational Environmental Management Plan (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
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

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CoA ref	Audit details	Recipient of the audit report	Where addressed
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

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## 3. Quarterly Construction Activities

### 3.1 Construction site activities

The following activities have occurred in the field to support construction works across the project generally:

- Geotechnical and contamination assessments
- Tree surveys
- Demolition and tree clearing
- Hazmat investigations
- Utility locations, modifications and connections
- Construction phase (monthly) surface water monitoring
- Noise and vibration monitoring
- Waste/materials testing and classification.

The following activities have occurred in the field at the St Peters Interchange area (including construction compounds C8-C11):

- Rapid impact compaction
- Piling
- Application of soil binder across stockpiles and access routes
- Operation of leachate treatment plant
- Concrete works
- Excavation and piling for cut and cover structure
- Landfill earthworks, geosynthetic clay liner, waste excavation and placement
- Odour monitoring and management activities
- Operation of crushing and screening plant
- Tunnelling (including drill and blast) and spoil removal
- 

The following activities have occurred in the field at the Arncliffe construction compound (C7):

- Testing and treatment of acid sulfate soils
- Operation of construction water treatment plant
- Tunnelling in temporary shaft with roadheader
- Surface grouting in temporary decline
- Tunnelling in temporary decline with roadheader and drill and blast
- Permanent shaft excavation and support ongoing
- Spoil testing and classification
- Spoil removal off-site
- Construction of Marsh St. frog ponds
- Surface-based grouting adjacent to Cooks River

The following activities have occurred in the field at the Bexley construction compounds (C4, C5 and C6):

- Tunnelling using roadheader
- Spoil removal off-site
- Concrete works
- Operation of construction water treatment plant.

The following activities have occurred in the field at the Western Surface Works and Kingsgrove construction compounds (C1, C2 and C3):

- Concrete works
- Tunnelling using roadheader
- Off-site spoil removal
- Ongoing operation of construction water treatment plant
- Installation of drainage and sewer works
- Piling
- Commencement of works for MOC 1

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The following activities have occurred in the field at the local road upgrades construction sites:

- Service investigations and relocations
- Archival recording
- Geotechnical and pavement investigations
- Materials classification
- Temporary barrier relocations
- Stripping of general solid waste and top soil layers along Campbell Street and Euston Road
- Excavation for cut and cover structure on Campbell Street
- Piling pad construction for structures

## 3.2 Construction Compliance Summary

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

Two CoA and one REMM were subject to non-compliance during the reporting period. Refer to Appendix A for details regarding the non-compliances.

Table 9: Compliance Summary

Status	CoA	REMM
<b>Compliant</b>	A1-A12, A14 (other than A14(c)(iii)), A15-A17 B1-B8, B10-B15, B20-B23, B26-B30, B31-B37, B39-B40, B42-B45, B47-B61, B62(a), (b), (c) & (f) B63, B65, B66, B71-B75 C1-C4 D1, D3, D6-D15, D16-D39, D42, D43, D45, D46-D54, D56-D64, D66-D68 E1, E4-E6, E32, E33, E36, E41, E37, E47	TT01-TT15, OpTT01, OpTT03, AQ01-AQ46, HH1, NV1-NV31, OpNV01, OpNV03, LP01-LP10, OpLP01, V01-V14, OpV01-OpV13, SE01-SE05, SW01-SW11, SW13-SW16, OpSW01, OpSW02, OpSW04-OpSW09, CM01-CM15, OpCM3, FD01-FD18, OpFD01-OpFD06, GW01-GW19, OpGW04, OpGW05, NAH01-NAH22, B01-B22, GHG1-GHG10, OpGHG1-OpGHG3, AH1-AH6, WM01-WM18, CC01-CC03, HR01-HR09, OpHR01, OpHR12, CI01, CI02
<b>Verification</b>	None	None
<b>Non-compliant</b>	C5, D55	SW12
<b>Administrative non-compliance</b>	None	None
<b>Not triggered</b>	A13, A14(c)(iii) B9, B16-B19, B24, B25, B41, B46, B62.(d), and (e), B64, B67-B70 D4, D5, D40, D41, D44, D65 E2, E3, E7-E31, E34, E35, E38-40, E42-E46, E48-E51	OpTT02, OpNV02, OpLP02, OpSW03, OpCM1, OpCM2, OpCM4, OpGW01-OpGW03, OpB01, OpWM01-OpWM03, OpHR02-OpHR11
<b>Observation</b>	None	None

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## Appendix A: Minister's Conditions of Approval

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Ref	Sub Ref	Condition of Approval	Timing/phase										Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)		
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13										
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	Y	Y	Pre-Construction Construction Operation	N	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 is being tracked throughout construction (and during operation where applicable) as described in the Compliance Tracking Program (CTP).
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	Y	Y	Pre-Construction Construction Operation	N	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) describes how compliance is monitored and tracked. Compliance details are provided in the Quarterly 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.  All design packages include a compliance register for all relevant requirements, including these Conditions of Approval. Compliance checks are conducted at each stage throughout the design process against the register. Evidence of compliance is documented and described in the compliance tables included in each design report.
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																			
A2	(e)	Supplementary material provided as an addendum to the New M5 Submissions and Preferred Infrastructure Report.																			
A3		In the event of an inconsistency between:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	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 in the subsequent Quarterly Construction Compliance Report.
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	Y	Y	Y	Pre-Construction Construction Operation	N	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	Noted and shall be implemented throughout construction of the project. 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	N	N	N	Commence works covered by approval	N	N/A	N/A	N/A	Compliant	CDS-JV	Establishment works for the project commenced in July 2016. Construction works commenced in August 2016.
A6		Where requested by the Secretary, the Proponent must provide evidence as to how feasible and reasonable measures were considered and taken into account.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-Construction Construction Operation	N	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 reporting period.
A6		<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>																			

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Ref	Sub Ref	Condition of Approval	Timing/phase									Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13							
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					Compliant	WCX M5 AT CDS-JV RMS	Noted. The establishment of ancillary facilities for the project is being undertaken in accordance with the approved AFMP (M5N-ES-PLN-PWD-0026).
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				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"> <li>• SSI Approval (SSI 6788), ie this approval, dated 20 April 2016</li> <li>• Environment Protection Licence (EPL 20772) dated 17 May 2016,</li> <li>• Environment Protection Licence (EPL 4627) dated 20 June 2016,</li> <li>• EPBC Approval, dated 11 July 2016.</li> </ul>
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					Compliant	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 was approved by DP&E on 23/11/2016 (refer CoA D51) prior to commencement of tunnelling activities.
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		24/06/2016		22/12/2016	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 (Revision 3, dated 22/12/2016). The first stage commenced in July 2016 and included site establishment of construction compounds (C1 – C11) and installation of HV power to construction compounds; the second stage commenced in August 2016 and includes continuation of establishment activities as well as surface construction activities; the third stage commenced in November 2016 and includes tunnelling activities; the fourth stage commenced in January 2017 and includes the local roads upgrades. The major stages are further broken down into sub-stages 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 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.																
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				Ongoing	Compliant	WCX M5 AT CDS-JV RMS	Noted. The Staging Report (Revision 3, dated 22/12/2016) identifies where any strategy, plan or program is being staged and the triggers for submissions and/or updates. The Staging Report also identifies the stages to which each condition applies.

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Ref	Sub Ref	Condition of Approval	Timing/phase								Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)		
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
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	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 are being undertaken in accordance with Element 12 of the CEMP to verify compliance with all approvals, legal and other requirements.  All non-compliances with the conditions of approval have been notified, investigated, and reported in accordance with the relevant conditions during the reporting period.
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	Not yet triggered	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.
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	25/07/2016	Ongoing	Compliant	CDS-JV WCX M5 AT RMS	The Compliance Tracking Program (CTP; M5N-ES-PRG-PWD-0002) has been approved by DP&E (25/07/2016) to track compliance with the conditions of approval and other project requirements and will operate for a minimum of 24 months following commencement of operation.  Notification was provided to the Secretary for commencement of construction as follows: - Stage 2(b) & 2(c) activities (commencement at Bexley and Arncliffe) on 24/08/2016 via Teambinder correspondence WCXSTAG2-CDSJV-DPE-GEN-000059 (letter ref: A14202726); - Stage 2(a) activities (commencement at Kingsgrove) on 1/09/2016 via email correspondence to Karen Harragon (letter ref: A14289870); - Stage 2(d) activities (commencement at St Peters Interchange) on 1/09/2016 via email correspondence to Karen Harragon (letter ref: A14315600); - Stage 3 activities (commencement of tunnelling) on 29/11/2016 via email to Karen Harragon; - Stage 4 activities (commencement of local roads upgrades) on 22/12/2016 via email to Karen Harragon (letter ref: A15598506).
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	Y	N		N	24/08/2016	N/A	22/12/2016	Compliant	CDS-JV WCX M5 AT 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	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 –																	
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	N/A	20/09/2016	Compliant	WCX M5 AT CDS-JV RMS	The Pre-construction Compliance Report was submitted to DP&E on 17/06/2016.
A14	(c)	(ii) quarterly Construction Compliance Reports, for the duration of construction, and	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	30/01/2017	N/A	Ongoing	Compliant	CDS-JV WCX M5 AT RMS	The Quarterly Construction Compliance Reports provide a summary of compliance with all project requirements throughout the construction period. This QCCR 6 is the sixth quarterly construction compliance report for the project.
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	Y	N		N	Not yet submitted	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV RMS	A minor update to the Compliance Tracking Program was provided to DPE on 20/12/17. The update was as a result of an external audit finding regarding the capture / storage of training records
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	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	Compliant	WCX M5 AT CDS-JV RMS	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
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	Compliant	WCX M5 AT CDS-JV RMS	
A14	(g)	procedures for rectifying any non-compliance identified during environmental auditing, review of compliance or incident management; and	Y	Y	Y	Y	Y	Y	Y	Y	Y		N	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV RMS	
A14	(h)	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	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	Compliant	WCX M5 AT CDS-JV RMS	This condition will continue to be complied with, where required in accordance with the EPL (EPL 20772 & EPL 4627), the Incident Management Plan (M5N-HS-PLN-PWD-003) and the POEO Act. This requirement is detailed in Element 9 of the CEMP.  There were 2 EPA notifiable pollution events (reported to EPA Pollution Prevention Line) during the reporting period as follows:  - on 16/1/18 underbore works under Alexandra Canal resulted in a bentonite frac-out to the bed of Alexandra Canal. EPA was notified via the Pollution Line on 16/1/18. DPE was notified via email on 18/1/18. - on 11/2/18 turbid water was discharged into Wolli Creek from the Commercial Road compound at Kingsgrove. EPA was notified via the Pollution Line on 12/2/18. DPE was notified via Teambinder on 20/2/18
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	Compliant	WCX M5 AT CDS-JV RMS	No incidents (other than those relating to the POEO Act) with actual, or potential, significant off-site impacts on people or the biophysical environment occurred during the reporting period.
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	Compliant	WCX M5 AT CDS-JV RMS	There were 2 EPA notifiable pollution events (reported to EPA Pollution Prevention Line) during the reporting period as follows:  - on 16/1/18 underbore works under Alexandra Canal resulted in a bentonite frac-out to the bed of Alexandra Canal. EPA was notified via the Pollution Line on 16/1/18. DPE was notified via email on 18/1/18. - on 11/2/18 turbid water was discharged into Wolli Creek from the Commercial Road compound at Kingsgrove. EPA was notified via the Pollution Line on 12/2/18. DPE was notified via Teambinder on 20/2/18
B1		The ventilation outlets must be constructed at the locations specified in Appendices A, B and C.	N	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	Not yet complete	Compliant	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 was achieved in February 2018.
B2		Unless otherwise approved by the Secretary, the ventilation outlets must be constructed at an approximate height of:	N	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	Detailed design for the ventilation outlets is progressing and outlets will be constructed in accordance with this Condition.
B2	(a)	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	Y	N	Construction	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	(a) Kingsgrove Ventilation Outlet IFC Design was achieved in February 2018 (b) Arncliffe Ventilation Outlet IFC Design was achieved in February 2018 (c) St Peters Ventilation Outlet IFC Design was achieved in February 2018

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
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	Y	N	Construction	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	Details of compliance against this CoA is provided in the compliance tables included in each design report.
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	Y	N	Construction	N	N/A	N/A	Not yet complete	Compliant	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	Y	N	Detailed Design	N	N/A	N/A	N/A	Compliant	CDS-JV	The Tunnel Ventilation System Final Design Report was achieved in February 2018 and is consistent with this requirement.  Details of compliance against this CoA is provided in the compliance tables included in each design report.
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	Y	N	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV WCX M5 AT	The Tunnel Ventilation System Final Design Report was achieved in February 2018 and is consistent with this requirement.  Details of compliance against this CoA is provided in the compliance tables included in each design report.
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	Y	N	Construction	N	Not yet submitted	N/A	Ongoing	Compliant	CDS-JV	The Tunnel Ventilation System Final Design Report was achieved in February 2018 and is consistent with this requirement.  Details of compliance against this CoA is provided in the compliance tables included in each design report.
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	Y	N	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	The tunnel shall be designed and constructed so as to allow for sampling of the ventilation system. The relevant design reports have been issued to the EPA. Installation of emission sampling points will be reported on in the relevant quarterly compliance report.  Details of compliance against this CoA is provided in the compliance tables included in each design report and are confirmed during independent certification.
B7		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.	N	N	N	N	N	N	N	Y	N	Prior to operation	Y	Not yet submitted	Not yet approved	Ongoing	Compliant	CDS-JV	The initial Incident / Traffic Management Planning workshop for WestConnex M4 East and New M5 occurred on 1/03/2017 with the Emergency Services representatives. The incident management procedures will be developed further in parallel to the completion of the design. The outcomes of this will form the basis of the system configuration and the Protocol required to be delivered by this condition.

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13
B7		<i>Note: 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.</i>																
B8		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.	N	N	N	N	N	N	Y	N	Prior to operation	N	N/A	N/A	Ongoing	Compliant	CDS-JV WCX M5 AT	Driver Advisory ITS Signage Design is expected to be certified by the IC. Signage will be specified and installed in accordance with this Condition.  Compliance with this condition will be reported on in the pre-operation compliance report.
B9		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:	N	N	N	Y	Y	Y	Y	Y	During design	Y	N/A	N/A	Ongoing	Compliant	WCX M5 AT CDS-JV RMS	The Air Quality Community Consultative Committee (AQCCC) has been established, with community representatives appointed through an expression of interest (EOI) process. Details of the EOI process were provided to DPE on 9 June, which included details of the appointment of the independent chair. Details of the full AQCCC membership following completion of the EOI process was provided to the Department on 8th September 2017.
B9	(a)	be comprised of -																
B9	(i)	two representatives from the Proponent and tunnel operator;																
B9	(ii)	one representative from each of the relevant councils, whose attendance is only required when considering matters relevant to their respective local government area;																
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 Arncliffe ventilation facility whose attendance is only required when considering matters relevant to their respective local area, and whose appointment has been <b>approved</b> by an expression of interest process conducted by the Proponent in <b>consultation</b> with the Secretary, and a Chair who is an independent party put forward by the Proponent and <b>approved</b> 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 provide advice on the dissemination of monitoring results and other information on air quality issues																
B9	(d)	The AQCCC 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.																

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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 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).	N	N	N	Y	N	N	N	N	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	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 July 2017 - October 2017 progress report was submitted to DPE on 14th November 2017.
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	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.  <b>Note:</b> On 13 October 2016 biodiversity credits for the Paperbark Swamp Forest and Green & Golden Bell Frog were secured. As required by the biobanking scheme, the credits were retired on 22 December 2016 to complete the offset. A copy of the credit retirement report was submitted to both the Secretary and Department of Environment and Energy (DEE) on 20 January 2017 as required by Condition B13  The July 2017 - October 2017 progress report, including progress in relation to the Cooks River Castlereagh Iron Bark was submitted to DPE on 14th November 2017	
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	Y	11/05/2016	31/05/2016	31/05/2016	Compliant	WCX M5 AT CDS-JV	On 13 October 2016 biodiversity credits for the Green & Golden Bell Frog (and Paperbark Swamp Forest) were secured. As required by the biobanking scheme, the credits were retired on 22 December 2016 to complete the offset. A copy of the credit retirement report was submitted to both the Secretary and Department of Environment and Energy (DEE) on 20 January 2017 as required by Condition B13
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	N	N	N	Y	Y	Y	Y	Y	Y	Not yet submitted	Not yet approved	Not yet complete	Compliant	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 is required to be submitted to DP&E within 12 months of the commencement of construction, ie prior to 24/08/2017. DP&E granted an extension to the submission date on 23 August 2017 for submission by 31 December 2017.  The Biodiversity Offset Package was formally submitted to DPE on 6th December 2017.



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B13	(b)	to offset the impacts of the SSI; 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).																	
B13		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.																	
B13		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.																	
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	17/05/2016	17/05/2016	Compliant	WCX M5 AT	The updated POM was submitted to DPE on 28 September 2017 with comments received on 5/12/17 and 31/1/18. The POM was updated based on DPE comments and is currently awaiting final approval by the consultant prior to submission to DPE. A revised POM is expected to be submitted to DPE in April 2018.
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																	



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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																	
B14	(b)	address densities, distribution and habitat use; 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		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	20/08/2016	Not yet approved	Not yet complete	Compliant	WCX M5 AT	The updated HCCBP was submitted to DPE on 28 September 2017. The updated HCCBP was approved by DPE on 1 November 2017.  No change in the status of the HCCBP in the reporting period.
B15	(a)	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																	
B15		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;																	
B15	(b)	details on the husbandry protocols that would be implemented including the experts involved and facility that																	



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B15	(c)	would conduct the captive breeding program;																
B15	(d)	adherence to the Guidelines for minimising disease risks associated with captive breeding, raising and restocking programs for Australian frogs (Murray et al, 2011);																
B15	(e)	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	(f)	detailed disease and predator protocols for the released frogs;																
B15	(g)	processes for certifying that imported landscaping materials are disease free;																
B15	(h)	ongoing maintenance and management procedures for the Marsh Street habitat and Green and Golden Bell Frog Population, including timing and responsibilities; and 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	Y	N	Construction	N	N/A	N/A	N/A	Compliant	WCX M5 AT CDS-JV
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 (Gambusia affinis) and/or Chytrid Fungus (Phylum chytridiomycota).																
		Monitoring is being undertaken in accordance with the Green and Golden Bell Frog Plan of Management (approved by the Secretary on 17/05/16).  Green and Golden Bell Frog monitoring has occurred on the following dates and at the following locations during the reporting period:  6 Dec 2017: Enhancement Area 11 Dec 2017: Enhancement Area 12 Jan 2018: Enhancement Area 23 Jan 2018: Enhancement Area 17 Feb 2018: Enhancement Area 20 Feb 2018: Enhancement Area  An updated letter was prepared during the reporting period in response to DPE comments dated 31 January 2018. The letter was submitted to DPE on 14 March 2018 (outside of the reporting period).																

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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	Y	N	Construction & Operation if triggered	Y	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	Y	N	Construction &, Operation if triggered	Y	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 Arncliffe population become extinct.
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	Y	N	Construction, operation	N	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	Non-Compliant	CDS-JV	<p>The project is being 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 is being implemented for construction. The CSWQSP includes environmental measures to control and manage construction water (Section 7).</p> <p>All discharges to waterways are required to be in accordance with the Manage Soil and Water Procedure (M5N-ES-PRC-PWD-0035) and the Water Quality Plan &amp; Monitoring Program (M5N-ES-PLN-PWD-0027) to meet the requirements of the project EPLs (#20772 and #4627).</p> <p>Note: There were 2 EPA notifiable pollution events (reported to EPA Pollution Prevention Line) during the reporting period as follows:</p> <ul style="list-style-type: none"> <li>- on 16/1/18 underbore works under Alexandra Canal resulted in a bentonite frac-out to the bed of Alexandra Canal. EPA was notified via the Pollution Line on 16/1/18. DPE was notified via email on 18/1/18.</li> <li>- on 11/2/18 turbid water was discharged into Wolli Creek from the Commercial Road compound at Kingsgrove. EPA was notified via the Pollution Line on 12/2/18. DPE was notified via Teambinder on 20/2/18</li> </ul>

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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	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 (CFFSP; M5N-ES-PLN-PWD-0007).  Compliance with this condition and the requirements of the CSWQSP and CFFSP are monitored through regular inspection and audit. No non-compliances have occurred for this condition in the reporting period.
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	N	Y	Construction	N	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).  Watercourse crossings will be installed across Alexandra Canal and the McDonaalstown Stormwater Channel at Munni Street, both part of the Local Roads upgrade works. Drainage works will also impact on Alexandra Canal and Wolli Creek at Kingsgrove.  Any proposed watercourse crossings, work platforms, temporary crossings or coffer dams will be designed in accordance with the referenced documents.  No construction works that trigger this condition have commenced in the reporting period. Compliance with this condition will be reported in subsequent quarterly compliance reports.
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	25/05/2016	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 is 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. The FMS was submitted to DP&E and councils 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  Flood modelling reports are currently being updated due to new and ongoing design changes which have necessitated some re-modelling. Once complete the Stage 1 (compounds) FMS will be updated and sent back to the peer reviewed by end of April 2018. Expected submission to DPE will be June 2018.  Stage 2 (operational) as above but with expected submission to DPE in July.
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;																	

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B23	(f)	the processes and actions committed to in the mitigation measures referred to in conditions A2(b) and A2(c);																	
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	Not yet complete	Not yet triggered	CDS-JV	Once finalised, the Flood Mitigation Strategy and relevant flood information will be provided to the NSW State Emergency Service and the following councils: • 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 Report(s) must be prepared by an appropriately qualified person(s) and include:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Subsequent to first defined flood	N	Not yet submitted	N/A	Not yet complete	Not yet triggered	CDS-JV	This requirement relates to post-construction flood impacts and will therefore be reported in the relevant operational compliance report subsequent to the identified flood event.
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																	

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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	Y	N	Prior to finalisation of tunnel design Operation	N	N/A	N/A	N/A	Compliant	CDS-JV	Feasible and reasonable measures to limit operational groundwater inflows have been addressed in the following reports, which are now finalised: - Tunnel Water Resisting Lining Systems - Tunnel Groundwater Control Systems - Tunnel Ground Improvement Grouting.
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 (National Water Commission, 2012) and prepared in consultation with DPI (Water). The Groundwater Modelling Report must include, but not be limited to:	N	N	N	N	N	N	Y	N	Prior to finalisation of tunnel design	N	3/02/2017	N/A	Not yet complete	Compliant	CDS-JV	This condition is addressed in the Hydrogeological Design Report M5N-GOL-DRT-100-200-GT-1525.  Comments received from DPI Water in September 2016 were addressed in Rev K of the report, issued in October 2016. The final report was submitted to DP&E 3/02/2017. Comments have been received from DP&E and the report has been updated and resubmitted to DP&E and DPI Water on 4/05/2017. Further comments from DP&E were received on 10/5/17 with a response provided 30/5/17. Letter received from DPI on 28/6/17 advising that DPI is satisfied with the Groundwater Modelling Report.
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)																

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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	3/08/2016	Ongoing	Compliant	CDS-JV	Consultation with DPI Water was completed in September 2017 (prior to the reporting period) and DPE were advised on 13 September 2017 that no further amendments were required to the Groundwater Baseline Report.
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;																	
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;																	
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;																	

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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 Wollie Creek behind the Wollie Creek station and forested areas along Bardwell Creek to ascertain potential impacts on groundwater dependent ecosystems, and														
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.														
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.														

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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		N	Not yet submitted	N/A	Not yet complete	Compliant	CDS-JV
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,															
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	Y	N		15/09/2016	3/11/2016	24/11/2016 (Construction-phase Strategy)	Compliant	CDS-JV
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															

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B30		option(s). Justification must be provided in the event that it is concluded that no feasible or reasonable reuse options prevail.															Strategy included a memo (draft memo was provided to the ER in both December 2017 and January 2018 for review / comment) detailing the investigation undertaken by the Project into the potential re-use of groundwater in 2017 to satisfy the requirements of the reasonable and feasible test.  The operational phase Water Reuse Strategy will be submitted to DP&E at least six months prior to the commencement of operation.		
B30		A copy of the Water Reuse Strategy must be submitted to the Secretary for approval prior to commencement of tunnelling works.																	
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 <b>Soil Contamination Report</b> 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	Y	Pre-construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Soil Contamination Reports are being progressively completed for the project in accordance with the Contaminated Land Management Act 1997 and associated guidelines to meet the requirements of condition B31. Compounds and other construction sites identified as having a medium to high risk of contamination are identified in Appendix B of the Construction Contaminated Land Management Plan.  Soil Contamination Reports (for Phase 2 site investigations) have been prepared for the following sites: - Construction compounds (C1-C4, C7, C8 and C11), - St Peters Interchange, various sites, - Local Road upgrades, various sites.  Where remediation is required Remediation Action Plans (RAP) are also being 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 both Chris Jewell and Rod Harwood, accredited site auditors. RAPs have been prepared for the following sites: - Alexandria Landfill - 25-29 Burrows Rd, St Peters - 32-34 Burrows Rd, St Peters - 33 Burrows Rd and 53-57 Campbell Rd, St Peters - 197 Euston Rd, Alexandria - Kingsgrove Construction Compound.  No ground is being disturbed until Soil Contamination Reports are complete and where required RAPs are complete.
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 <b>Remediation Action Plan</b> 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	Y	Pre-construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	
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 <b>Site Audit Statement(s)</b> 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	Not yet submitted	N/A	Ongoing	Compliant	CDS-JV	
B32		The Proponent must submit a copy of the final <b>Landfill Closure Management Plan</b> 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	N	Y	N	N	N	N	Y	Y	N	Pre-Construction	N	2/06/2016	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.  An update to the plan was provided to DPE on 11/8/17 to include an



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		the Landfill Closure Management Plan:															Odour Management Protocol as directed by DPE via letter dated 13/7/17.	
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	(i)	(i) dust and odour;																
B32	(i)	(ii) asbestos;																
B32	(i)	(iii) leachate and gases;																
B32	(i)	stormwater; and																
B32	(j)	any outstanding clean-up notices, and																
B32	(k)	evidence that the EPA has reviewed the Landfill Closure Management Plan and has no outstanding concerns.																
B32		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.																
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	Construction	N	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"> <li>heritage items to be shown on Site Environment Plans (SEPs),</li> <li>delineation of heritage items/areas on site,</li> <li>avoiding or monitoring use of vibratory equipment in proximity to heritage items</li> <li>training/awareness of unexpected heritage finds procedure.</li> </ul> Measures identified in the Construction Heritage Sub-Plan are being implemented.

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
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	20/09/2016	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 has been consulted in regards to salvage requirements (information provided for review 2/08/2016). OEH have provided their satisfaction with the approach outlined for salvage and reuse of items from the Rudders Bond Store for the project (letter ref: SF15/43038, dated 19/09/2016). A copy of this letter was submitted to DP&E on 20/09/2016.  Demolition / deconstruction works were completed as of May 2017. Ten whole beams have been salvaged to date for re-use on the project. A further 6 beams have been salvaged for City of Sydney.  Items to be reused within the project area at St Peters will be incorporated into 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 <b>consultation</b> 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 <b>consultation</b> with the relevant council(s), to property owners within the locality from where the material originated.	N	N	N	N	N	N	Y	N	Y	Pre-construction Construction	Y	8/11/2016	8/12/2016; 22/12/2016	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 reports have been developed in consultation with Inner West Council for 28-44 & 82 Campbell St St Peters. These reports have been considered by DPE. Materials from these properties have been salvaged in accordance with the salvage reports.  Work is progressing to incorporate salvaged items into the Urban Design and Landscape Plan. A process has previously been developed and enacted in consultation with Inner West Council to distribute residual items to property owners within the locality.
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	N	Y	Pre-construction Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	The property is being 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 as 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	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	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).  Extent Heritage are engaged to provide advice in relation to acoustic treatment at heritage properties on Campbell St. St. Peters during the reporting period.
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	Compliant	CDS-JV	There were no additional buildings or structures identified as potential heritage items during the reporting period.

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B40		The Proponent must prepare a <b>Heritage Interpretation Plan</b> 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:	N	N	N	N	N	N	Y	N	Y	Construction	N	Not yet submitted	N/A	Not yet complete	Compliant	CDS-JV	This requirement is addressed in Section 6 of the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). Preliminary work has commenced on the Heritage Interpretation Plan and it 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	(a)	a discussion of the key interpretive themes, stories and messages proposed to interpret the history and significance of the affected heritage items and sections of heritage conservation areas 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																	
B40	(b)	identification and confirmation of interpretive initiatives implemented to mitigate impacts to archaeological relics, heritage items and conservation areas affected by the SSI. The Heritage Interpretation Plan must be prepared in <b>consultation</b> 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 the Secretary at least six months prior to the operation of the SSI.																	
B40																			
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	N	Y	Pre-construction Construction	N	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.  A photographic survey has been undertaken of the Canal banking. The Archival Report will be included in an updated Construction Heritage Management Plan.
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	N	Y	Construction	N	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.  The relevant works at this site have not yet commenced.
B43		The SSI is to be designed with the objective of improving, on balance, and not adversely impacting on:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Design	N	N/A	N/A	N/A	Compliant	WCX M5 AT	Detailed design is being undertaken in consideration of all Conditions of Approval, including the requirement to improve existing traffic performance and access arrangements.
B43	(a)	the performance of the road network for all road users, including but not limited to vehicles, freight, public transport and active transport; and																The road performance standards for the project have been nominated by WCX M5 AT and CDS-JV is designing the project in accordance with these standards.	
B43	(b)	existing access arrangements and services for all road users, including consideration of speed and reliability of public transport services.																Access arrangements are captured in the local road and property adjustment documentation which comply with this requirement.  Details of compliance against this CoA is provided in the compliance tables included in each design report and are confirmed during independent certification.	

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B44		The SSI must be designed to not preclude delivery of the King Street Gateway Project. <b>Consultation</b> 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	Y	Design	N	N/A	N/A	Ongoing	Compliant	WCX M5 AT	RMS met with Councils to discuss the final concept design plans for King Street Gateway Project on 27 April and 2 May 2017. Councils and RMS have endorsed the Concept Design layouts for the King Street Gateway.  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	(a)	Where bus stops are required to be temporarily closed during construction, such closure must not occur until:  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	N	N	N	Y	Y	Y	Y	N	Y	Design	N	N/A	N/A	N/A	Compliant	CDS-JV	A bus stop along Euston Road Northbound south of Maddox Street has been relocated north of Maddox Street. This Bus Stop relocation is part of long term plan for Euston Road stage 1 B approved under a Traffic management plan. In addition the Bus Stop along Euston Road Southbound, north of Maddox Street was temporary closed for two weeks with alternative bus stop within 400m was proposed. Consultation and approval were conducted in liaison with Transport for NSW.	
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 <b>consultation</b> 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 <b>consultation</b> with Transport for NSW and relevant councils prior to the commencement of operation of the SSI	N	N	N	Y	Y	Y	Y	N	Y	Prior to operation	N	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 Sub 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	Compliant	WCX M5 AT	Road Geometry Design Reports and the Road Design Criteria Report take this condition into consideration for optimising road alignments. Area Shared Path (Footpaths, Bicycle Paths) Design Reports further identify accessibility.  Road alignment design reports are finalised and shared use path design reports were being finalised at the time of reporting.  Details of compliance against this CoA is provided in the compliance tables included in each design report and are confirmed during independent certification.	
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	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.  Details of compliance against this CoA is provided in the compliance tables included in each design report and are confirmed during independent certification.	

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B49		An independent <b>Road Safety Audit(s)</b> 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	Ongoing	Compliant	CDS-JV	There were five audits undertaken during the reporting period as follows: - 4 Dec 2017 – M5 Switch 3 desktop audit - 14 Dec 2017 – Campbell Road side track - 2 Jan 2018 – roundabout desktop audit - 8 Jan 2018 – Campbell Road joint bay near Burrow Road - 22 Jan 2018 – Burrows Rd Pedestrian crossing opening audit
B50		The Proponent must undertake a <b>Pedestrian and Cycleway Network Review</b> . 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	Not yet submitted	Not yet approved	Ongoing	Compliant	WCX M5 AT	The revised Pedestrian and Cycleway Review was approved by DPE on 23 June 2017.
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																	
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 <b>Pedestrian and Cycle Implementation Strategy</b> 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	Not yet approved	Not yet complete	Compliant	WCX M5 AT	The Pedestrian and Cycle Implementation Strategy was submitted by RMS to DPE for approval on 22 September 2017. An updated plan was submitted on 6 March 2018 following the receipt of DPE comments on 9 February 2018.
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;																	

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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.																	
B51		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	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.
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	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).  The project continues to investigate further opportunities to reduce waste and maximise recycling.
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	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).  This process has been implemented throughout the reporting period.
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	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).  This process has been implemented throughout the reporting period.

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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	Y	N	N/A	N/A	N/A	Compliant	CDS-JV	<p>This requirement is addressed in the Spoil Management Plan (M5N-PM-PLN-PWD-0002-07). Revision 7 of the Spoil Management Plan was provided to DP&amp;E in January 2017, which addresses the requirements of the conditional approval of the Plan, provided by DP&amp;E dated 23/11/2016.</p> <p>Note: Between Monday 22/01/2018 and Thursday 25/01/2018 (inclusive) a subcontractor disposed of WestConnex Tunnel Spoil (WTS) from the Bexley tunnelling sites to a site at Luddenham which CDS had not approved given CDS had not been given appropriate documentation from the subcontractor. (s.143, EPL). This documentation was subsequently provided to CDS and the spoil tracking register was updated.</p> <p>Compliance monitoring undertaken in accordance with the Plan during the reporting period identified no non-conformances by CDS against the plan.</p> <p>Tracking of spoil transport and disposal is being undertaken in accordance with the Construction Waste and Resource Sub-plan (M5N-ES-PLN-PWD-0008) and the Spoil Management Plan.</p> <p>Note: The ER undertook a compliance audit on 8/2/18 noting minor update requirements.</p>	
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. <b>Consultation</b> 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	N/A	N/A	Ongoing	Compliant	CDS-JV	<p>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, Transgrid, NBN and Sydney Water. All relocation and protection works shall continue to be carried out in consultation with, and with approval from, the relevant stakeholders.</p>	
B58		<p>The Proponent must undertake dilapidation surveys and prepare dilapidation reports on the current condition of surface and sub-surface structures 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 surface and sub-surface structures for review prior to the commencement of potentially impacting construction activities.</p> <p>Subsequent dilapidation surveys must be undertaken to assess damage to the surface and subsurface structures 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 surface and sub-surface structure owner(s) within three months of completion of the postdilapidation surveys unless otherwise agreed by the owner of the affected surface and subsurface structure.</p> <p>Note: - For the purposes of condition B58, "surface and sub-surface structures" are taken to include, but is not limited to, underground and above ground structures, utility services and infrastructure, buildings, roads and bridges.</p>	Y	Y	Y	Y	Y	Y	Y	Y	Y	N/A	N/A	Ongoing	Compliant	CDS-JV	<p>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.</p> <p>A total of 4200 properties (includes both residential and commercial) are currently identified for pre-condition survey offers, however, this number is expected to rise once all strata properties are accounted for. The following number of dilapidation surveys have been completed in each council area for the project to date:</p> <p>City of Botany – 56 City of Sydney – 262 Marrickville - 488 Rockdale - 362 Canterbury - 91 Hurstville – 17 Bayside – 239 Inner West - 159</p> <p>The Project is on schedule to provide reports to all property and asset owners prior to works that may cause settlement or vibration.</p>	

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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 <b>Local Road Dilapidation Report</b> 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 timing, and at the full expense of the Proponent.</p> <p><i>Note:</i> <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.</i></p>	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	13/05/2016	Compliant	CDS-JV	<p>Local Road dilapidation surveys have been completed for each council area, as below:                      Local Road Dilapidation Report: City of Canterbury (M5N-CN-RPT-PWD-0001);                      Local Road Dilapidation Report: Hurstville Council (M5N-CN-RPT-PWD-0002);                      Local Road Dilapidation Report: Rockdale Council (M5N-CN-RPT-PWD-0003);                      Local Road Dilapidation Report: Marrickville Council (M5N-CN-RPT-PWD-0004);                      Local Road Dilapidation Report: Sydney City Council (M5N-CN-RPT-PWD-0005);                      Local Road Dilapidation Report: Sydney City Council (M5N-CN-RPT-PWD-0006).</p> <p>The Local Road Dilapidation Reports were provided to the relevant Local Council on 13 May 2016.</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>(b) the NSW Government Architect as Chair;</p> <p>(c) meet at least four times a year, or as otherwise agreed by the UDRP;</p> <p>(d) 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</p> <p>(e) keep a record of meeting minutes and a schedule of action items arising from the meeting,</p> <p>The Proponent may establish a separate UDRP for each precinct</p>	N	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-construction Construction	N	N/A	N/A	Ongoing	Compliant	WCX M5 AT	<p>On 13/7/17, the NSW Government Architect provided a letter of endorsement on the Urban Design and Landscape Plan to DP&amp;E as Panel Chair . The letters was provided on behalf of the Government and Independent members of the UDRP.</p>
B60	(a)															Compliant				
B60	(b)															Compliant				
B60	(c)															Compliant				
B60	(d)															Compliant				



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
B61		Prior to commencement of permanent built surface works and/or landscaping, or as otherwise agreed by the Secretary, an <b>Urban Design and Landscape Plan (UDLP)</b> must be prepared. The UDLP must be prepared by a suitably qualified and experienced person(s), in <b>consultation</b> 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		Y	Not yet submitted	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 is being submitted for the approval of the Secretary in two packages prior to the commencement of the relevant permanent built works and/or landscaping.  Both packages of the UDLP have been reviewed by the UDRP in accordance with B60.  The first package was approved by DPE on 18/7/17.  The second package (eastern precinct) was approved on 24/01/18. The next update of the UDLP is required in April 2018.  The next update of the UDLP is required in April 2018.
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																	
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																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)							
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 The UDLP must be implemented within one year of operation unless otherwise required by these conditions Note: • 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 <b>Campbell Road Crossing Sub-plan</b> 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 <b>consultation</b> with the relevant councils and the UDRP, and must address the matters raised during consultation.	N	N	N	N	N	N	N	Y	Y	Not yet submitted	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	The Campbell Road Crossing Sub-Plan was submitted by RMS to DPE for approval on 31 August 2017.  Consultation between DPE and RMS and Council was ongoing during the reporting period.
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 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															

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			1A: C1-C3	1B: C4-C11	1C: HV POWER	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13							
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 <b>St Peters Interchange Recreational Area Sub-plan</b> 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	Y	Y	N	Within twelve months of the date of this approval	Y	Not yet submitted	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	The St Peters Interchange Recreational Area Sub-Plan was submitted by RMS to DPE for approval on 31 August 2017.
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 <b>consultation</b> 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 (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																
B62	(b)	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 <b>Campbell Street Green Link Sub-plan</b> 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	Y	Y	Y	Prior to permanent Surface works	Y	Not yet submitted	Not yet approved	Not yet complete	Compliant	CDS-JV	The Campbell Street Green Link Sub-plan has been developed in consultation with the UDRP, councils and the community as part of Package 2 of the UDLP. Community consultation on the Sub-plan was undertaken between 4 - 30 April 2017 and was submitted for approval of the Secretary on 14/7/17 with preliminary comments received on 28/7/17.  This Sub-Plan is currently being updated (excluding Camdenville Basin and path amendments) with a due to date for submission by end of April 2018.

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B62	(c)	The Plan must be prepared by an experienced and qualified person(s) in the design and provision of open space and in <b>consultation</b> 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;																
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 UDRP and the Sydney Park Enhancement Sub-plan. All facilities must be provided within 12 months of operation																
B62	(d)	a <b>M5 Linear Park Enhancement Sub-plan</b> , 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 <b>consultation</b> 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	Y	N	Prior to permanent surface works	Y	Not yet submitted	Not yet approved	Not yet complete	Compliant	WCX M5 AT CDS-JV
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 <b>Alexandra Canal Sub-plan</b> 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 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.	N	N	N	N	N	N	N	N	Y	Prior to permanent built surface works	Y	Not yet submitted	Not yet approved	Not yet complete	Not yet triggered	CDS-JV
B62	(f)	a <b>Noise Barrier Location and Design Sub-plan</b> which includes	N	N	N	Y	Y	Y	Y	N	Y	Prior to permanent built surface works	Y	Not yet submitted	Not yet approved	Not yet complete	Compliant	CDS-JV
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,																
		The Sub Plan was updated to include visual assessment and was submitted																

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B62	(f)	(iv) consideration of safer safety by design principles, the WestConnex Urban Design Framework, RMS Design Guidelines																to DPE on 28/2/18. Approval was provided 29/3/18/.
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 <b>consultation</b> 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 <b>Tree Report(s)</b> 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 trees and vegetation within and adjacent to the construction footprint. The report(s) must include:	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	13/05/2016	Various	Not yet complete	Compliant	CDS-JV	Tree Reports are being progressively submitted to the Secretary, DPE, for approval. There were no tree reports approved for construction during the reporting period.  The remaining Tree Reports required for removal of trees at construction compounds and other sites will be submitted to DPE prior to commencement of the relevant works.  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/revegetation will be described in the Urban Design and Landscape Plan (M5N-ES-PLN-PWD-0009) once finalised.
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 <b>consultation</b> 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																
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	N	N	Y	N	N/A	N/A	Not yet complete	Not yet triggered	CDS-JV	Consultation with City of Sydney Council in relation to Sydney Park continued throughout the review period.

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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 <b>Solar Access and Overshadowing Report</b> which addresses compliance with these requirements.	N	N	N	Y	Y	Y	Y	Y	Y	Within 12 months of approval or prior to construction of structures that may cause overshadowing	N	Not yet submitted	N/A	Not yet complete	Compliant	CDS-JV	The Solar Access and Overshadowing Report was submitted to DP&E on 20 April 2017. DP&E provided initial comments on the Report on 12/05/2017. A final report was submitted to DPE on 27th Feb 2018.  Note: Through consultation with the relevant councils - no approved residential developments have been identified which will be affected by overshadowing.
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 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 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 <b>Community and Social Management Plan</b> 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 <b>consultation</b> 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 approval	Y	Not yet submitted	Not yet approved	Not yet complete	Not yet triggered	WCX M5 AT	The Community and Social Management Plan was submitted to DP&E on 20/6/17. DP&E provided comments on the Report on 6/7/2017. These comments were addressed in a resubmission to DP&E on 15/8/17.  The resubmitted CSMP was under review during the close of this reporting period.
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,																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
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																	
B66	(b)	a Community Cohesion Program to enhance community cohesion in precincts directly affected by the SSI through initiatives including, but not limited to -																(iii) CDS-JV	
B66		(i) enhancement of open space and recreation areas, (ii) active community involvement and engagement, (iii) provision or facilitation of cycling facilities within Camdensville Park, in consultation with the relevant council, (iv) support of community initiatives and programs, and (v) 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 <b>Residual Land Management Plan in consultation</b> 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	Not yet submitted	N/A	Not yet complete	Not yet triggered	WCX M5 AT CDS-JV	In progress during the review period.
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	Not yet triggered	WCX M5 AT	In progress during the review period.
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	Not yet triggered	WCX M5 AT	In progress during the review period.
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	Prior to Operation	N	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT	RMS met with City of Sydney Council during the period to discuss potential amendments to the Sydney Park Plan of Management.
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	Ongoing	Compliant	WCX M5 AT RMS CDS-JV	Discussions with Canterbury Bankstown Council and RMS continued during the reporting period. Council is reviewing the future use of the golf course and hence the ultimate need for the golf ball deflection fence. Discussions will continue into the next quarter.

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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	Ongoing	Compliant	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 <b>consultation</b> with affected landowners	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction Operation	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Light spillage is minimised where possible and generally consistent with AS 4282-1997 'Control of the obtrusive effects of outdoor lighting'.  The 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.  Complaints regarding light spillage will be managed in accordance with the approved Community Communication Strategy (M5N-CS-PLN-PWD-0008) and the Construction Complaints Management System.  No complaints relating to light spill have been received to date.
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	Ongoing	Compliant	CDS-JV	A "leading" level ISCA design rating of 76% was achieved during the QCCR5 reporting period.
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	Ongoing	Compliant	CDS-JV	Opportunities to reduce operational greenhouse gas emissions were identified and investigated during detailed design development and verified as part of the ISCA design submission. The "leading" ISCA certification recognised during this quarter was based on significant operational GHG emission reductions implemented as part of the final design of the Project. Some of the verified reductions included:  <ul style="list-style-type: none"> <li>• 34% total energy reduction from BAU for the whole Project as a result of energy efficient M&amp;E tunnel design. The improved design incorporated the use of LED lighting in the tunnel interior and an optimised tunnel ventilation strategy (banana jet fans etc.)</li> <li>• Australian first innovation - LED lighting in the tunnel interior. Current typical road tunnels use fluorescent lighting for illumination. Improvements in LED technology have enabled the Project to use LED lights to illuminate the tunnel roadway. Together with LED lighting in the Motorway Operations Centres (MOCs), the use of LEDs in the tunnels has resulted in a 70% energy use reduction compared to the use of fluorescent lighting.</li> </ul> Opportunities to reduce GHG emissions will continue to be identified and implemented throughout the construction phase where reasonable and feasible.
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	27/07/2016	Ongoing	Compliant	CDS-JV	The Community Communication Strategy (M5N-CS-PLN-PWD-0008 Rev 04) has been reviewed and updated with final DPE comments incorporated into the Plan. (a) Identified stakeholders have continued to be consulted including Inner West Council regarding use of Tempe Reserve, Burrows Rd compounds, traffic changes amongst other issues; City of Sydney Council has been consulted regarding use of local roads and Bayside Council regarding permanent reinstatement of footpath on Gardeners Rd. (b) Weekly e-updates via zones have continued to be a feature for regular distribution of accessible information. Notifications for day works, traffic changes and out of hours work are also distributed. (c) Campbell St (west) and adjoining streets community forum/street meeting took place February 27, 5.30 - 7pm in Simpson Park. Approx. 35 residents attended.



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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													(d and e) 1800 number available 24/7; info@newm5.com.au maintained in keeping with identified response times. f) There have been no requirements for Independent mediator intervention in complaints management. g) no longer applicable.	
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 delivery of the SSI. This may include the use of a suitably qualified and experienced independent mediator; and														
C1	(g)	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		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.														

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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	Y	Y	Pre-construction Construction	N	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"> <li>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</li> <li>Provision of an independent service to vulnerable households to assist with their relocation</li> <li>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</li> <li>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).</li> <li>Residents who are having their properties acquired or are relocating due to the New M5 project (e.g. tenants) have been advised to contact WestConnex directly to discuss available support services.</li> </ul>
C3	(a) (b) (c) (d) (e)	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:  (a) a toll-free 24 hour telephone number(s) on which complaints and enquiries about the SSI may be registered; (b) a postal address to which written complaints and enquires may be sent; (c) an email address to which electronic complaints and enquiries may be transmitted; (d) a mediation system for complaints unable to be resolved; and (e) a mechanism for community members to make enquiries in common community languages of the area The telephone number, 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.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Pre-establishment	N	N/A	N/A	Ongoing	Compliant	CDS-JV WCX M5 AT	CDS JV continues to utilise the toll free 24hr telephone number, a postal address for complaints and enquiries (none received through this channel), the info@newm5.com.au email address for complaints and enquiries' a mediation process and a translator service. Other than the postal address, these are incorporated in notifications. The address and opening hours of the Community Information Centre are also listed in publications.	
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	Ongoing	Compliant	CDS-JV	Complaints and enquiries reporting is continuously being improved and the team is adhering to SMC guidelines in order to measure KPIs. The reporting reflects the team's commitment to responding to stakeholders with respect and answering enquiries and complaints as effectively as possible.	



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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	Compliant	CDS-JV	The ER has continued monthly reporting during the period. The ER issued 3 monthly reports during the period.
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	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	This condition is included in the Construction Soil and Water Management Plan (M5N-ES-PLN-PWD-0005) and the Water Reuse Strategy (M5N-ES-PLN-PWD-0035).  Erosion, sedimentation and drainage controls are being implemented as per Site Erosion and Sediment Control Plans, which have been developed by the project Soil Conservationists, SEEC. These controls are consistent with Managing Urban Stormwater – Soils and Construction Vols 1 and 2, 4th Edition (the Blue Book) (Landcom, 2004) and are inspected fortnightly by the project's Soil Conservationist for compliance.  Opportunities for reusing water onsite or for construction are being investigated and implemented, where feasible and reasonable.  Water from the Leachate Treatment Plant at St Peters Interchange is not able to be reused on site for safety/health reasons.
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	Construction	N	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	Construction Operation	N	N/A	N/A	N/A	Not yet triggered	CDS-JV WCX M5 AT	CDS-JV will immediately notify WCX M5 AT who will notify DPI Water in the case of any groundwater bores being 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. This requirement is addressed in the Construction Soil and Water Management Plan (M5N-ES-PLN-PWD-0005).  No registered bores present prior to construction of the project have been removed or damaged during the reporting period.
D6		A <b>geotechnical model</b> 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, including and specific attributes, which may be impacted by the SSI. 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 surface and sub-surface structures.	N	N	N	Y	Y	Y	Y	Y	Y	Prior to excavation	N	N/A	N/A	20/06/2016	Compliant	CDS-JV	The geotechnical model has been updated progressively to incorporate the available site investigation information.

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D7		The Proponent must undertake a review of surface and sub-surface structures at risk from damage to determine appropriate criteria to prevent damage, prior to excavation and tunnelling works that may pose a settlement risk. Criteria for surface and sub-surface structures which are not included in condition D8 (Table 1) must be determined in consultation with the owner(s) of the surface and sub-surface structures prior to commencement of any excavation or tunnelling works potentially affecting the surface and sub-surface structures.	N	N	N	N	N	N	N	Y	N	Prior to tunnelling	N	N/A	N/A	7/11/2016	Compliant	CDS-JV	The Ground Movement Assessment Report (M5N-AJV-DPK-150-500-TR-1560), which has been finalised, fulfils this condition and has been prepared prior to finalising detailed design to enable feedback into the design. This has been undertaken prior to any construction that may influence ground settlement.
D8		In the case of buildings, roads, parking areas and parks, the appropriate criteria which governs the greatest risk of damage are to be selected from Table 1 (Maximum Settlement, Maximum Angular Distortion or Limiting Tensile Strain) unless the Proponent has determined more stringent criteria under condition D7.	N	N	N	N	N	N	N	Y	N	Prior to tunnelling	N	N/A	N/A	21/11/2016	Compliant	CDS-JV	A settlement analysis has been undertaken and the results included in the Ground Movement Assessment Report (M5N-AJV-DPK-150-500-TR-01560), issued as final design 7/11/2016. The results of this assessment have informed the Impact Assessment Report (M5N-AJV-TER-150-500-TR-01559), issued as final design 21/11/2016. Where necessary CDS-JV will provide the predicted settlement impact assessment to the appropriate asset owner, and negotiate and agree to acceptable limits of settlement. Where appropriate, instrumentation and monitoring will be used to ensure no exceedances of the agreed criteria.
D8		<b>Table 1 - Settlement Criteria</b>																	
D9		Should the geotechnical model in condition D6 identify exceedances of the relevant criteria established by conditions D7 and D8, the Proponent must implement an instrumentation and monitoring program to measure settlement, distortion or strain as required. The Proponent must also identify and implement appropriate mitigation measures in consultation with the owners of the relevant surface and sub-surface structures prior to excavation and tunnelling works to ensure where possible that the surface and sub-surface structures will not experience exceedances of the relevant criteria.  The adopted criteria does not remove any responsibility from the Proponent for the protection of existing surface and sub-surface structures or for rectifying any damage to surface and subsurface structures resulting from the SSI.  Note: - For the purposes of conditions D6, D7, D8 and D9 "surface and sub-surface structures" are taken to include, but is not limited to, underground and above ground structures, utility services and infrastructure, buildings, roads, bridges, car parks, parking areas, parks and swimming pools.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Prior to works affecting utilities/infrastructure	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Settlement criteria have been determined in consultation with the relevant authorities and reported in the Impact Assessment Report (M5N-AJV-TER-150-500-TR-01559). The Impact Assessment Report is informing detailed design for construction activities that have the potential to affect individual utility structure or infrastructure.  Consultation has been conducted and issues closed out with Jemena, Transgrid, Telstra and Sydney Water (in relation to the SWSOOS). Consultation is ongoing with APA, Viva, Caltex, Freyssinet, Ausgrid, Optus, NBN, Axicom, Sydney Desalination, Sydney Water (items other than SWSOOS), ARTC, Sydney Trains, Broadpectrum, BP.
D10		A detailed <b>land use survey</b> 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	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)

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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	Ongoing	Compliant	CDS-JV	The community team continues to monitor for sensitive receivers in accordance with the requirements of D24. The community team has been briefed by the Enviro team on the Condition and the requirements for managing upcoming compaction and vibration work in areas of close proximity to residents and businesses.
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	Compliant	CDS-JV	Except as permitted by the conditions of this approval or an EPL, works are 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	Y	N	Construction	N	N/A	N/A	N/A	Compliant	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).  Tunnelling and tunnel support activities are approved to be conducted 24 hours, 7 days per week under the project EPLs (EPL 20772 & EPL 4627).
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	Compliant	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 F to the Construction Noise and Vibration Management Plan).  Compliance with this condition is monitored through the weekly environmental inspections.
D14	(a)	between the hours of 8:00 am to 6:00 pm Monday to Friday																	
D14	(b)	between the hours of 8:00am to 1:00 pm Saturday; and																	
D14	(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	Compliant	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 F to the Construction Noise and Vibration Management Plan).
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																	



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)							
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	Pre-construction Construction	N	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);															
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 Vibration effects 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		Feasible and reasonable noise mitigation measures should be applied to construction activities when the following residential ground-borne noise levels are exceeded:	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV
	(a)	evening (6:00 pm to 10:00 pm)- internal LAeq(15 minute): 40 dB(A); and															
	(b)	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).															
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	Establishment Construction	N	N/A	N/A	N/A	Compliant	CDS-JV

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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	Y	19/08/2016	Various	Ongoing	Compliant	CDS-JV	CDS-JV are implementing operational noise mitigation measures early in the construction program, where reasonable and feasible. 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.  Reports approved by DP&E to date under this condition include: - Kingsgrove Permanent Noise Barriers (dated 19/08/2016) approved 26/08/2016 - Architectural treatment for 1 Kirrang St, Beverly Hills (dated 25/08/2016), approved 26/08/2016 - Local roads (dated 9/11/2016), approved 12/12/2016.  - 1682 properties listed are noted to date that qualify for acoustic treatment (these include additional dwellings not listed in the EIS but captured in the Noise Model). - Property addresses listed includes block of units which have been expanded to include individual units. - Of the 1682, 305 properties has been identified as "potential" requiring treatment. Further expansion of property addresses (for block of units) is still under investigation to identify number of unit dwellings.
D20		The Proponent must develop and implement a <b>Temporary Noise Barrier Strategy</b> which includes:	Y	Y	N	Y	Y	Y	Y	N	Y	Y	13/05/2016	Various	Ongoing	Compliant	CDS-JV	The Temporary Noise Barrier Strategy (TNBS) has been staged and submitted to DPE as relevant to each stage of the project as described in QCCR 1 and QCCR 2. Temporary Noise Barrier Strategies for all construction stages of the project have been approved by DP&E. An update to the Temporary Noise Barrier Strategy for Campbell Road and Campbell Street, which addresses D20(a)(iii) was approved on 22/05/2017.  An Official Caution was issued by DPE on 9/03/18 in relation to the erection of a sea container noise wall at Arncliffe where DPE held the view that it had not been approved prior to erection and was a breach of CoA A2(b)
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																
D20	(a)	(iv) temporary noise barriers around construction compounds;																
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 M5 East Motorway are removed, and/or road widening works are undertaken along Campbell Road, Campbell Street or Euston Road.																

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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	Not yet complete	Compliant	CDS-JV	The approved Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) addresses this condition.  Acoustic sheds were completed at the Bexley North, Kingsgrove North and South construction compounds. The Bexley South construction acoustic shed was completed by 30th August and Arncliffe construction compound acoustic sheds completed by 10th October.  Acoustic sheds will be completed prior to the commencement of 24 hour spoil removal activities at the relevant sites.
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	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.  Vibration monitoring for specific vibration generating plant / activities has occurred in accordance with this condition at all sites.
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	Establishment Construction	N	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.  Noise monitoring of plant and equipment has continued during the reporting period to confirm noise modelling assumptions for high noise activities.
D24		The Proponent must <b>consult</b> 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	Establishment Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Ongoing consultation with stakeholders is maintained. For this past quarter, most of these receivers have been in the vicinity of tunnelling work and have only required confirmation that vibration will not affect their properties.
D25		During construction, proponents of other construction works in the vicinity of the SSI must be <b>consulted</b> 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	Establishment Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	The project continues to liaise with other infrastructure providers in the area to minimise impact to residents.  Contact has been established with Sydney Metro community and traffic teams whose Marrickville dive site is adjacent to project boundary.

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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	Construction	N	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. These include: - Minimising night work - Avoiding local roads - Toolbox talks that include awareness of local residents / sensitive receivers - Non-tonal alarms (quacker) - Minimise quantity of plant during the night period.
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	Construction	N	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).
D28		Should blasting be required, the Proponent must prepare a <b>Blast Management Strategy in consultation</b> 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	Y	N	Prior to blasting	N	16/01/2017	N/A	16/01/2017	Compliant	CDS-JV	Blasting continues to be undertaken at Arncliffe, SPI and Kingsgrove.  The Blast Management Strategy was updated and referenced in the EPL variation approved 1st December 2017.
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	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	Vibration monitoring for blasting at Arncliffe indicated that the blasting activities were compliant with the requirements of conditions D34 and D35.  Note: a reading of 10.06 mm/s PVS (in excess of the 10 mm/s requirement required by D35) was detected during blasting in Decline 2 at Arncliffe on 8/2/18 however the result was considered inaccurate due to unstable ground conditions on which the monitor had been placed. This exceedance was reported to EPA on 13/2/18 via email.

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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 <b>consultation</b> on the Blast Management Strategy.  <i>Note: 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	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	An application was submitted to EPA on 16th October 2017 to increase the blasts frequency at the Arncliffe construction site from 1 to 2 a day. EPA approved via licence variation on 1st December 2017. This allowed for two detonations in any one day, and a maximum of 12 blasts a week at the Arncliffe site.
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	Y	N	Construction	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	Trial blasting commenced at Arncliffe on 27th August 2017. Trial blasting commenced at Kingsgrove on 20th November 2017. Trial blasting commenced at St. Peters on 15th September 2017.
D32	(a) (b) (c)	Blasting associated with the project must only be undertaken during the following hours:  9:00 am to 5:00 pm, Monday to Friday, inclusive; 9:00 am to 1:00 pm Saturday; and at no time on Sunday or on a public holiday, 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	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	An application was submitted to EPA on 16th October 2017 to increase the hours available for blasting. EPA approved via licence variation on 1st December 2017 an increase in blasting hours between 7am-6pm Monday to Friday and between 8am-1pm on Saturdays..
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	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	Blasting to date has been compliant with this requirement.
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.  <b>Table 2 - Airblast Overpressure Criteria (refer sheet 2)</b>	N	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	Blasting to date has been compliant with this requirement.
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.  <b>Table 3 - Ground Vibration Limits for Human Comfort (AS 2187.2) (refer sheet 2)</b>	N	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	Blasting to date has been compliant with this requirement.  <i>Note: a reading of 10.06 mm/s PVS (in excess of the 10 mm/s requirement) was detected during blasting in Decline 2 at Arncliffe on 8/2/18 however the result was considered inaccurate due to unstable ground conditions on which the monitor had been placed. This exceedance was reported to EPA on 13/2/18 via email.</i>

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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		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 <b>consultation</b> undertaken with the relevant landowners. The following exclusions apply to the application of this condition:	N	N	N	N	N	N	Y	N	Construction	N	N/A	N/A	N/A	Compliant	CDS-JV	There are no current written agreements in place.	
D36	(a)	any agreements reached may be terminated by the landowner at any time should concerns about the increased blasting limits be unresolved																	
D36	(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																	
D36	(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																	
D37		<p>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).</p>	Y	Y	Y	Y	Y	Y	Y	N	Y	Prior to construction	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	<p>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.</p> <p>Archival recording has been completed for the following items: - Dynamo Service Garage - St Peters Brickpit Geological Site - Rudders Bond Store - MacDonaltdown Stormwater Drainage Channel.</p> <p>Archival recording of items in heritage conservation areas has occurred at the following locations - Arncliffe Heritage Conservation Area - Bexley and Kingsgrove Heritage Conservation Area; and - St Peter's Construction Impact Corridor.</p>
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. <b>Consultation</b> 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	N	Y	Prior to construction	N	N/A	N/A	Not yet complete	Compliant	CDS-JV	<p>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.</p> <p>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.</p> <p>Archival recording of heritage conservation areas have been completed at the following locations - Arncliffe Heritage Conservation Area - Bexley and Kingsgrove Heritage Conservation Area; and</p>
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																	

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D38	(c)	any other feasible recording requested and agreed to following consultation with the aforementioned stakeholders.															- St Peter's Construction Impact Corridor.	
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 <b>Archaeological Research Design and Excavation Methodology</b> . The Archaeological Research Design and Excavation Methodology is to be <b>submitted to the Heritage Council of NSW for review and comment</b> prior to finalisation. The Archaeological Research Design and Excavation Methodology must:	N	Y	Y	N	N	Y	Y	Y		10/02/2016	2/08/2016	Ongoing	Compliant	CDS-JV	CDS-JV have engaged an Excavation Director, Graham Wilson, of Extent Heritage. Mr Wilson 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 Mr Wilson. 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.  The Excavation Director is continuing to be present and advise on archaeological issues.	
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 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 <b>notified</b> in writing in accordance with section 146 of the Heritage Act 1977. An <b>Archaeological Relics Management Plan</b> specific to the relics or site encountered is to be prepared in <b>consultation</b> 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	Y	Y	Y	Y	Y	Y	Y	Y			N/A	N/A	N/A	Not yet triggered	CDS-JV WCX M5 AT	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 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 during the reporting period.

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		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.																	
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 <b>Excavation Report</b> containing the findings of any excavations, including artefact analysis and the identification of a final repository of any finds. The Excavation Report must be <b>submitted</b> 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	Y	Establishment Construction	N	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 yet been discovered for the project.
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	Y	N	Prior to construction	N	N/A	N/A	20/04/2016	Compliant	CDS-JV	Archival recording of the St Peters Brickpit Geological Site was 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	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 CHSP (M5N-EN-PLN-PWD-0006).  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	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 for the project.

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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	N	Y	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	This requirement is addressed by the Construction Heritage Sub-Plan (M5N-ES-PLN-PWD-0006). The sediment cores are being assessed by the project archaeologist, of Extent Heritage, prior to excavation or piling works adjacent to Alexandra Canal. If artefacts are discovered in the cores, the Unexpected Heritage Finds Procedure will be implemented.  No artefacts or relics have been discovered to date in the reporting period.
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	1/09/2016	19/10/2016	Ongoing	Compliant	CDS-JV	Heavy vehicles associated with construction of the project will not use any unapproved road unless approval has been sought and obtained 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 Sub-Plan (CTASP; 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.  Use of Barwon Park Road was approved by DPE on 12 February 2018.
D47	(a) (b) (c) (d)	Construction vehicles (including staff vehicles) associated with the SSI must be managed so that:  (a) parking or queuing on public roads is minimised; (b) idling and queuing in local residential streets is minimised, where practicable; (c) heavy vehicles adhere to the nominated haulage routes identified in the Construction Traffic and Access Management Plan required under condition D68(a); and (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 <b>consultation</b> with the relevant council.	Y	Y	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	The management of construction vehicles is addressed by the Construction Traffic and Access Sub-Plan (CTASP; 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 CTASP) for the project, also provide additional measures to address these requirements.  Traffic controls are inspected each fortnight as a minimum by the Traffic Engineers or Traffic foreman with relevant qualification, including any night-time traffic controls. This is specified in Section 8.10 of the CTASP.
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	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 Sub-Plan (M5N-ES-PLN-PWD-0004).  Pedestrian and cyclist access has been considered in the layout of construction compounds and alternate access has been provided where required.  Traffic management plans for each specific traffic switch cover a pedestrian detour strategy and provide a safe alternate route.

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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	Ongoing	Compliant	CDS-JV	<p>Access to all properties has been maintained during the reporting period. Access to Businesses affected during construction staging was undertaken with a consultation phase prior commencing works. Adequate mitigation measures were considered to maintain primary accesses to all properties.</p> <p>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 Sub-Plan (M5N-ES-PLN-PWD-0004).</p> <p>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).</p>
D50		The Proponent must prepare and implement a <b>Construction Parking and Access Strategy</b> 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	N	N	N	N	N	Y	Construction	Y	7/11/2016	23/12/2016	Ongoing	Compliant	CDS-JV	<p>The impact of construction works on parking is limited to local road works (Stage 4) activities. The Construction Parking and Access Strategy (M5N-AJV-TER-100-110-TM-1609) has been developed in consultation with affected stakeholders. Consultation has been undertaken with potentially affected residents and businesses as well as the following:</p> <ul style="list-style-type: none"> <li>- City of Sydney Council</li> <li>- Inner West Council</li> <li>- Roads and Maritime.</li> </ul> <p>The Strategy was submitted to DP&amp;E on 7/11/16 for approval prior to the commencement of Stage 4 activities. Comments from DP&amp;E were provided and Revision 2 of the Strategy was approved on 23/12/2016.</p> <p>Monitoring and reporting of monitoring results to the Secretary and relevant Councils was undertaken during the period.</p> <p>An update to this plan was submitted to DPE in April 2018 which addressed an additional 6 parking spaces impacted by grouting works at Tempe.</p>
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)	<b>consultation</b> 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 introduce parking restrictions adjacent to work sites and compounds;																	
D50	(f)	mechanisms for monitoring over appropriate intervals to determine the effectiveness of implemented mitigation measures;																	
D50	(g)	provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and																	
D50	(h)	provision of reporting of monitoring results to the Secretary and relevant councils at appropriate intervals.																	
D50		The Construction Parking and Access Strategy must be submitted to the Secretary for approval prior to the commencement of construction.																	

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D51		Prior to commencement of any tunnelling works, the Proponent must prepare and implement a <b>Spoil Management Plan</b> for the SSI. The Spoil Management Plan is to be developed, in <b>consultation</b> 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	Y	N		25/07/2016	23/11/2016	23/11/2016	Compliant	CDS-JV	A Spoil Management Plan (M5N-CN-PLN-PWD-0002) has been developed and was provided to the following councils for consultation on 25/5/16: - City of Sydney - Georges River - Inner West - City of Botany Bay - Rockdale City Council - Canterbury-Bankstown  The Spoil Management Plan was updated to address feedback received during consultation. Revision 6 of the plan was submitted to DP&E on 4/11/16, which was conditionally approved on 23/11/2016. The Plan was updated in accordance with the conditional approval and resubmitted to DP&E on 12/01/2017.  ER: A review of the implementation of the Plan by the ER on 8 Feb 2018 indicated that it is being implemented although some minor updates are required.
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	N	N/A	N/A	Ongoing	Compliant	CDS-JV	The clearing of native vegetation is being 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 identify areas of sensitive vegetation and habitat to be retained during construction.  Additional opportunities to avoid vegetation clearance will be investigated throughout construction.  Rehabilitation requirements are identified in the Flora and Fauna Sub-Plan (M5N-ES-PLN-PWD-0007) and are detailed in the Urban Design and Landscape Plan.  No threatened species, populations and ecological communities have been removed during the reporting period.
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	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Pre-clearing surveys were undertaken between 10-13 May 2016 for 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 is being 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		The Proponent must prepare and implement a <b>Construction Contamination Management Plan</b> 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:	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	2/06/2016	N/A	13/12/2016	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.

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D54	(a)	details of construction activities and their locations which have the potential to expose areas known to contain, or potentially contain, contaminated soils and/or materials;															DP&E provided comments on the Plan on 27/07/2016. The Plan was revised to address comments and Revision 2 was submitted on 13/12/2016.	
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 the documents referred to in conditions A2(b), A2(c) and A2(e);																
D54	(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.																
D54		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		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	Construction	N	N/A	N/A	Ongoing	Non-Compliant	CDS-JV	Part D, Appendix C to the Construction Environment Management Plan (M5N-ES-PLN-PWD-0001) identifies relevant legislation to the project which includes dangerous goods and hazardous substances legislation.  The relevant requirements for the storage and handling of dangerous goods is addressed by the approved Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005).  In January 2018 a bulk diesel fuel tank located at the Commercial Road, Kingsgrove tunnelling site was noted to be non-compliant with the EPA's bunding and spill management guidelines. The diesel fuel tank was subsequently removed from site.
D55	(a)	all relevant Australian Standards;																
D55	(b)	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 <b>consultation</b> with affected property owners.	Y	Y	N	Y	Y	Y	Y	Y	Y	Y	Construction	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Boundary screening has been installed at 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). Screening includes temporary acoustic barriers, where applicable, which are described in the Temporary Noise Barrier Strategies as described under CoA D20.  Consultation has been completed with properties adjoining the following compounds for preparation of the Temporary Noise Barrier Strategies required under D20: - Kingsgrove construction compounds (C1-C3) - Bexley construction compounds (C4-C6) - Arncliffe construction compounds (C7) - SPI construction compounds (C8-C11) - Campbell St construction sites and Camdenville Park minor ancillary facility.  Comments/feedback regarding boundary screening and noise walls has been considered by CDS-JV and incorporated where possible into the final site design plans.	
D57	(a)	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 <b>Ancillary Facilities Management Plan</b> 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 <b>consultation</b> 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	Y	3/05/2016	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 (Revision 5) was submitted to DP&E on 3/05/16 and approved on 23/06/2016.  Revision 7 of the AFMP was submitted on 27/02/2017 to incorporate additional approved facilities and to reflect commencement of construction in most project areas.		
D57	(b)	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	(c)	a description of the works proposed to be undertaken during site establishment;																			
D57	(d)	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	(e)	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	(f)	a description of the plant, equipment and materials to be used and/or stored on each site, including dangerous and hazardous goods;																			
D57	(g)	a summary of the potential environmental impacts associated with the establishment and operation of the facility;																			
D57	(i)	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	(ii)	measures to minimise and manage flora and fauna impacts including-																			
D57	(iii)	clearing procedures incorporating pre-clearing surveys and inspections and measures for minimising the extent of clearing,																			
D57	(iv)	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	(v)	procedures for removal and relocation of fauna during clearing, and																			
D57	(vi)	construction worker induction and education;																			

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Ref	Sub Ref	Condition of Approval	Timing/phase								Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)		
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
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 of the Construction Environment Management Plan required under condition D67.																	
D57		For the purposes of this condition, site establishment works does not include:																	
D57	(a)	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 <b>Arncliffe Construction Compound Sub-plan</b> , prepared in consultation with OEH, which includes the following:	N	Y	N	N	N	Y	N	Y	N	Establishment Construction	Y	20/05/2016	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;																	The Sub-plan was updated (Revision 3) for consistency with the DP&E approval of Revision 18 of the Green and Golden Bell Frog Plan of Management. The update was considered to be of a minor nature and was therefore approved by the Environmental Representative on 16/02/2017.
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: 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;																	

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D58	(c)	the methods for dust suppression;															
D58	(d)	acid sulphate soil management procedures; and															
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.															
D58		The Proponent is not required to consult with the relevant council on the Arncliffe Construction Compound Sub-plan.															
D59		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):	N	Y	N	N	N	N	N	N	Prior to establishment	N	N/A	N/A	27/07/2016	Compliant	CDS-JV
D59	(a)	define the construction clearing area;															
D59	(b)	establish a frog exclusion zone; and															
D59	(c)	undertake pre-clearance survey and salvage activities (i.e. frog collection).															
D59		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.															
D59		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.															
D59		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.															
D59		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.															
D60		Site establishment works at ancillary facilities must be undertaken in accordance with the construction hours specified in conditions D12 and D14.	Y	Y	Y	N	N	N	N	N	Establishment	N	N/A	N/A	Ongoing	Compliant	CDS-JV
D60		Notwithstanding, the following activities can be undertaken outside of the hours specified in conditions D12 and D14.															
D60	(a)	the delivery of materials/equipment/plant where it is required by the police or other authorities for safety reasons;															
D60	(b)	works required in an emergency to avoid the loss of lives, property and/or prevent environmental harm;															
D60	(c)	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	Establishment	N	N/A	N/A	Ongoing	Compliant	CDS-JV

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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	Y	Y	Y	N	N/A	N/A	N/A	Compliant	CDS-JV	<p>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).</p> <p>Where additional ancillary facilities are proposed they are also assessed against the criteria as described in the AFMP.</p> <p>All additional ancillary facilities assessed during the reporting period required approval under CoA D63 or D64.</p> <p>No additional ancillary facilities were established during the reporting period.</p>
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.																			
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	Y	Y	Y	9/09/2016	14/11/2016	Ongoing	Compliant	CDS-JV	<p>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.</p> <p>An extension to the Cooks River Grouting works was received on 4/12/17 to undertake additional grouting activities in Cahill Park.</p> <p>A further extension to the use of the Tempe compound until 1 July 2018 was granted by the Department on 23 March 2018 (outside the reporting period).</p>	
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	Y	Y	Y	N	N/A	N/A	Ongoing	Compliant	CDS-JV	<p>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).</p> <p>No additional minor ancillary facilities were approved by the ER during the reporting period.</p>
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 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																			

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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.																	
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	Y	N	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 for operational sites, or the Residual Land Management Plan for residual land, 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	N	N/A	N/A	Ongoing	Compliant	CDS-JV	Privacy of adjoining premises has been considered in the design of the ancillary facilities. Consultation was undertaken in September 2016 with affected property owners/occupiers on Glamis Street where the Kingsgrove C1 construction compound overlooks property. Measures have been implemented during establishment to maximise privacy, as described in Section 7.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026).  The completed noise wall adjoining properties on Campbell St (west) provides privacy as well as noise mitigation.	
D67	(a)	Prior to the commencement of construction, or as otherwise agreed by the Secretary, the Proponent must prepare and implement a <b>Construction Environmental Management Plan (CEMP)</b> 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	Y	31/05/2016	4/08/2016	Complete	Compliant	CDS-JV	<p>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:</p> <ul style="list-style-type: none"> <li>- City of Sydney</li> <li>- Hurstville</li> <li>- Marrickville (now Inner West Council)</li> <li>- City of Botany Bay</li> <li>- Rockdale</li> <li>- Canterbury</li> </ul> <p>The CEMP was submitted to DP&amp;E for approval on 31 May 2016 and was approved by DP&amp;E on 4/08/16.</p> <p>Ongoing implementation of the CEMP is evidenced in the weekly ER inspection reports.</p> <p>Note: Minor updates to the Construction Environmental Management Plan were approved by the ER as part of the projects annual review on 16th Oct 2017.</p>	
D67	(b)	a description of activities to be undertaken during construction of the SSI (including staging and scheduling);																	
D67	(c)	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	(d)	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	(e)	an environmental risk analysis to identify the key environmental performance issues associated with the construction phase; and																	
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),																	



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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).																
D67	(e)	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; however, construction works must not commence until written approval of the relevant stage has been received from the Secretary.																
D67	(e)	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 <b>Construction Traffic and Access Management Plan</b> 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	27/07/2016	27/07/2016	Compliant	CDS-JV
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,																
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																
<p>The CTASP was approved by DP&amp;E on 27/07/16. Revision 7 of the CTASP</p>																		

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D68	(a)	details of oversized load movements, and the nature and duration of those impacts;															was submitted to DP&E on 5/01/2017 for consistency with the approved Spoil Management Plan.	
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;															Short term and long term traffic controls outlined in the CTASP are subject to regular monitoring by the project Traffic Engineers and Site Supervisors. Inspection records are maintained by the Traffic Team.	
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 <b>Construction Noise and Vibration Management Plan</b> 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	Y	27/05/2016	7/07/2016	7/07/2016	Compliant	CDS-JV	<p>The Project Construction Noise and Vibration Management Plan (CNVMP; TH014-15 01F01 WCX_NM5 / M5N-ES-PLN-PWD-0003) 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"> <li>- City of Sydney</li> <li>- Hurstville</li> <li>- Marrickville (now Inner West Council)</li> <li>- City of Botany Bay</li> <li>- Rockdale</li> <li>- Canterbury</li> </ul> <p>The CNVMP was submitted to DP&amp;E for approval on 27 May 2016. The CNVMP has been updated to address DP&amp;E comments and Revision 19 of the CNVMP was approved by DP&amp;E on 7/7/16.</p> <p>Implementation of the CNVMP is evidenced through the weekly ER inspection reports.</p>
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;																
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 (Transport Construction Authority, 2011)</i> 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																



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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 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;																	
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																	
D68	(b)	mechanisms for the monitoring, review and amendment of the Construction Noise and Vibration Monitoring Plan.																	
D68	(c)	a <b>Construction Heritage Management Plan</b> 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	2/08/2016	2/08/2016	Compliant	CDS-JV	The Project Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006) was provided to OEH, DPI Water, the Heritage Council of NSW, the Metropolitan Local Aboriginal Land Council, and the following councils for consultation on 3/05/2016: - City of Sydney - Hurstville - Marrickville (now Inner West Council)
D68	(c)	i. in relation to Aboriginal Heritage –																	



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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13							
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 OEH, and Aboriginal stakeholders, and assessment of the consistency of any Aboriginal heritage impacts against the approved impacts of the SSI,																- City of Botany Bay - Rockdale - Canterbury  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.  Implementation of the CHSP is evidenced through the weekly ER inspection reports
D68	(c)	B. procedures for dealing with human remains, including cessation of works in the vicinity, notification of, NSW Police Force, OEH and Aboriginal stakeholders, and commitment to cease recommencing any works in the area unless authorised by OEH 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 –																
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 <b>consultation</b> with the OEH, Heritage Council of NSW (for non-Aboriginal heritage) and Registered Aboriginal Groups (for Aboriginal heritage).																
D68	(d)	a <b>Construction Flora and Fauna Management Plan</b> 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 <b>consultation</b> with the OEH, and must include, but not be limited to:	N	N	N	Y	Y	Y	Y	Y	Y	Y	27/05/2016	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



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)
D68	(d)	i. detailed maps showing the location of impacted and adjoining flora and fauna habitat areas;																	- Rockdale - Canterbury
D68	(d)	ii. detailed maps showing where pre-clearing surveys will be undertaken to confirm the location of threatened species, populations and ecological communities;																	<p>The CFFSP was prepared and submitted to DP&amp;E for approval on 27 May 2016. Revision 7 of the CFFSP was conditionally approved by DP&amp;E on 20/7/2016. Revision 8 of the CFFSP was submitted on 25/08/2016 to address approval conditions.</p> <p>Implementation of the CFFSP is evidenced through the weekly ER inspection reports.</p>
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 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 Ridgeway 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;																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13
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 mechanisms for the monitoring, review and amendment of the Construction Flora and Fauna Management Plan.																
D68	(d)																	
D68	(e)	a <b>Construction Air Quality Management Plan</b> 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	4/07/2016	4/07/2016	Compliant	CDS-JV
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																
D68	(e)	mechanisms for the monitoring, review and amendment of the Construction Air Quality Management Plan.																
D68	(f)	a <b>Construction Soil and Water Management Plan</b> 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	Compliant	CDS-JV
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;																

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
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 mechanisms for the monitoring, review and amendment of this Construction Soil and Water Management Plan.																	
D68	(f)																		
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	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	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		<b>Table 4 - In Tunnel monitoring methodology (refer sheet 2)</b>																	
E2		<b>Note:</b> 1. Special Method 1 means a method approved by the Secretary in consultation with the EPA.																	
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, 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 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	Y	N	Operation	Y	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 relevant quarterly Construction Compliance Reports and Pre-Operational Compliance Report.  Modification 2 relating to Conditions E3 & E44 was approved by DPE on 30 August 2017.
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	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		<b>Table 5 - In-tunnel average limits along length of tunnel (refer sheet 2)</b>																	
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	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		<b>Table 6 - In-tunnel single point exposure limits (refer sheet 2)</b>																	
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	Not Yet triggered	WCX M5 AT CDS-JV	The Tunnel Ventilation System design has been developed to meet this criteria. The control system will be configured to automatically control the ventilation equipment to met this criteria.

Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)
E6		<b>Table 7 - In-tunnel visibility limits along length of tunnel</b>																	
E7		Prior to commencing operation, an independent person or organisation whose appointment has been <b>approved</b> by the Secretary must:	N	N	N	N	N	N	N	N	N	Prior to operation	Y	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.
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 <b>notify</b> 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	N	Operation	N	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		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 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 <b>Tunnel Air Quality Management Systems Effectiveness Report</b> 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	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.																	



Ref	Sub Ref	Condition of Approval	1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13	Timing/phase	Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)
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.																	
E9		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	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 quality within the surrounding residential receptors; and																	
E10	(e)	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.																	
E10		The Proponent must use the sampling method, units of measure, and sampling frequency specified in Table 8.																	
E10		<b>Table 8 - Ambient Air Quality Monitoring Methodologies (refer sheet 2)</b>																	
E10		Notes:																	
E10		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.																	
E10		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).																	
E10		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).																	
E10		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.																	
E10		5. Appropriately modified to include size selective inlet for PM2.5 or as otherwise approved by the Secretary.																	

Quarterly Construction Compliance  
Report: No. 6



Ref	Sub Ref	Condition of Approval	Timing/phase								Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)		
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
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 AQCCC 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 <b>approved</b> by the Secretary in <b>consultation</b> with the EPA and the AQCCC. The quality of the monitoring results must be assured through a NATA accredited process prior to the data being considered as a basis for compliance/auditing purposes.	N	N	N	N	N	N	N	N	N	Design Operation	Y	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT CDS-JV	Monitoring locations will be selected in consultation with the AQCCC following an assessment by the project team of the suitability of sites. Locations will be reported in subsequent Quarterly Construction Compliance Reports and the Pre-Operational Compliance Report. CDS are currently waiting on EPA review of design reports.  Locations for AQMS will be confirmed at the AQCCC meeting in early 2018 once all necessary assessments have been completed
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 <b>approved</b> by the Secretary in <b>consultation</b> 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	N	Operation	Y	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 <b>consultation</b> with the AQCCC. Any recommendation to close any or all of the stations will require the <b>approval</b> of the Secretary in <b>consultation</b> with the EPA.	N	N	N	N	N	N	N	N	N	12 months prior to operation	Y	N/A	Not yet approved	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		Should ambient monitoring of air pollutants exceed the following goals, the provisions of conditions E15, E16 and E17 will apply:	N	N	N	N	N	N	N	N	N	Operation	N	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.
E14	(a)	CO – 8 hour rolling average of 9.0 ppm (NEPM);																	
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 <b>Ambient Air Quality Goal Protocol</b> for the evaluation of a potential measurement that exceeds the goals. The Ambient Air Quality Goal Protocol must be developed by the Proponent in <b>consultation</b> with the AQCCC and submitted to the Secretary for <b>approval</b> 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	Not yet submitted	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	This CoA relates to a pre-operation requirement which will be developed and submitted to the Secretary for approval at least 12 months prior to operation of the Project. This will be reported on in the Pre-Operation Compliance Report.
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;																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
E15	(b)	the form and contents of a Report on Above-Goal Recording, subject to condition E17;																	
E15	(c)	a process for appointing an independent person/organisation to prepare the Report on Above-Goal Reading. The process must include –																	
E15	(i)	approval of the independent person/organisation by the Secretary prior to preparation of the report, and																	
E15	(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 <b>Notification of Above-Goal Recording</b> 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	Not Yet triggered	WCX M5 AT 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;																	
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		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. 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. The Proponent must comply with any requirements arising from the Secretary's review of the Report on Above-Goal Recording.	N	N	N	N	N	N	N	N	N	Operation	N	N/A	N/A	N/A	Not Yet triggered	WCX M5 AT CDS-JV	
E18		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. 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 <b>approved</b> by the Secretary and paid for by the Proponent.	N	N	N	N	N	N	N	Y	N	Construction Operation	Y	N/A	Not yet approved	Not yet complete	Not Yet triggered	WCX M5 AT RMS CDS-JV	
E18		<b>Table 9 - Ventilation Outlet Emission Monitoring</b>																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
E18		<p><b>Methodologies (refer sheet 2)</b></p> <p>Notes:</p> <p>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.</p> <p>2. Must include, but not be limited to: Benzene, Toluene, Xylenes, 1,3-Butadiene, Formaldehyde and Acetaldehyde.</p> <p>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, Dibenz(a,h)anthracene, Fluorene, Pyrene, Benzo(k)fluoranthene, Benzo(g,h,i)perylene.</p> <p>4. Special Method 1 means a method approved by the Secretary in consultation with the EPA.</p>																	
E19		The concentration of a pollutant discharged from the ventilation outlets must not exceed the respective limits specified for that pollutant in Table 10.	N	N	N	N	N	N	N	N	N	Operation	N	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.
E19		<b>Table 10 - Ventilation Outlet Mass Pollutant Concentrations (refer sheet 2)</b>																	
E20		An independent person or organisation approved by the Secretary must:	N	N	N	N	N	N	N	N	Operation	Y	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.																	
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.																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
E21		Should the results of monitoring show that any of the ventilation outlet limits specified in condition E19 have been exceeded, the Proponent must <b>notify</b> 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 <b>approve</b> 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	N	Operation	Y	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	N	Operation	N	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.
E23		The Proponent must develop and implement a reporting system for in-tunnel, ambient and ventilation outlet limits in <b>consultation</b> with the EPA. The reporting system must be <b>approved</b> 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	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	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.

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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	Y	N	Construction Operation	N	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	Y	N	Construction Operation	N	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.
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 <b>approved</b> by the Secretary in <b>consultation</b> 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	N	Operation	Y	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 and AQCCC.  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 <b>approved</b> by the Secretary prior to monitoring of air quality and ventilation outlet emissions as appropriate.	N	N	N	N	N	N	N	N	N	Operation	Y	N/A	Not yet approved	Not yet complete	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.



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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	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 <b>consultation</b> 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	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 <b>Operation Environmental Management Plan (OEMP)</b> 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 <b>consultation</b> 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	Not yet submitted	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.
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																	

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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															
E31	(h)	(viii) surface water quality and hydrology, including stormwater management.															
E31		The OEMP must be submitted for the <b>approval</b> 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	Ongoing	Compliant	WCX M5 AT RMS CDS-JV  This CoA applies to the detailed design of the project which is ongoing. This CoA also applies to the operational phase.  This CoA will be assessed and reported on in the Operational Noise and Vibration Review (ONVR), prior to the commencement of construction of permanent noise mitigation structures, in accordance with CoA E37. Compliance with this CoA will also be confirmed in the Operational Noise and Vibration Compliance Report, in accordance with CoA E38.
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 NSW Industrial Noise Policy (EPA, 2000) and the Sleep Disturbance Application Note to the NSW Industrial Noise Policy. 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	Ongoing	Compliant	WCX M5 AT CDS-JV  This CoA applies to the detailed design of the project which is ongoing. This CoA also applies to the operational phase.  This CoA will be assessed and reported on in the Operational Noise and Vibration Review (ONVR), prior to the commencement of construction of permanent noise mitigation structures, in accordance with CoA E37. Compliance with this CoA will also be confirmed in the Operational Noise and Vibration Compliance Report, in accordance with CoA E38.
E34		A detailed <b>Operational Noise Management Plan</b> must be prepared as part of the Operational Environmental Management Plan required by condition E31 and submitted to the Secretary for <b>approval</b> . 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 Plan must include, but not be limited to:	N	N	N	N	N	N	N	N	One month prior to operation	Y	Not yet submitted	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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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,																
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		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	Operation	N	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	(a)	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	(b)	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																

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E35	(c)	subject to the modification factors provided in Section 4 of the NSW Industrial Noise Policy (EPA, 2000), where applicable. 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 implementation of the assessment method.																
E35																		
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	Design Operation	N	N/A	N/A	Ongoing	Compliant	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 <b>Operational Noise and Vibration Review (ONVR)</b> to confirm noise and vibration control measures that would be implemented for the project. The ONVR must be prepared in <b>consultation</b> with the Department, relevant councils, other relevant stakeholders and the community and must:	N	N	N	Y	Y	Y	Y	N	Y	Construction	Y	Not yet submitted	Not yet approved	Not yet complete	Compliant	WCX M5 AT CDS-JV  The ONVR was submitted to DPE on 30 October 2017. CDSJV addressed DPE comments and presented the ONVR to DPE in early March 2018. The ONVR was being amended to accommodate further DPE comments for submission in late March 2018.
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 Policy (DECCW, 2011) and NSW Industrial Noise Policy (EPA, 2000), including the timing of implementation;																
E37	(e)	include a consultation strategy to seek feedback from directly affected property owners (including educational institutions) on the noise and vibration mitigation measures; and																
E37	(f)	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 <b>approval</b> prior to the commencement of construction of physical noise mitigation structures, unless otherwise agreed by the Secretary.																

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
E37		The Proponent must implement the identified noise and vibration control measures and make the ONVR publicly available.																	
E38		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 <b>Operational Noise and Vibration Compliance Report</b> . The Operational Noise and Vibration Compliance Report must include, but not be limited to:	N	N	N	N	N	N	N	N	N	Within 12 months of commencement of operation	N	N/A	N/A	Not yet complete	Not yet triggered	WCX M5 AT RMS CDS-JV	This CoA relates to the operational phase. An Operational Noise and Vibration Compliance Report will be prepared and submitted to the Secretary and the EPA within 60 days of completing the operational noise monitoring. This will be reported on in the operational compliance reports.
E38	(a)	details of the noise and vibration monitoring program including methodology, location and frequency of noise monitoring;																	
E38	(b)	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);																	
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 <b>consultation</b> with affected property owners.	N	N	N	N	N	N	N	N	N	Operation	N	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 <b>Road Network Performance Review Plan</b> in <b>consultation</b> with Transport for NSW and the relevant councils that includes:	N	N	N	N	N	N	N	N	N	Operation	N	Not yet submitted	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-																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
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,																	
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.																	
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.																	
E40		<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 <b>consultation</b> will be reported and incorporated in the Road Network Performance Review Plan required under condition E40.	N	N	N	N	N	N	N	N	N	Design Operation	N	N/A	N/A	Not yet complete	Compliant	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 <b>Operational Parking and Access Strategy</b> 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	N	12 months prior to operation	Y	Not yet submitted	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



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			1A: C1-C3	1B: C4-C11	1C: HV POWER	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13								
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;																reported on during the operational compliance reports.	
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)	<b>consultation</b> 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;																	
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	Not yet triggered	WCX M5 AT RMS CDS-JV	This condition is noted and will be complied with during the construction and operational phases, as required.
E44		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	N	6 months prior to operation	N	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.
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;																	Note: Modification 2 relating to Conditions E3 & E44 was approved by DPE on 30 August 2017.
E44	(b)	details of traffic management measures to be implemented during emergencies, where appropriate, to minimise the potential for escalation of the emergency;																	

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13
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; 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	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.
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 <b>Hazard Review Report</b> , 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	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.

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			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)								4: C12-C13	
E47		The Proponent must develop a Fire Engineering Brief and <b>Fire Engineering Report</b> to address fire and life safety in the tunnel, in <b>consultation</b> 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 fire engineering study in <b>consultation</b> 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.	N	N	N	N	N	N	N	Y	N	Design	N	N/A	N/A	Not yet complete	Compliant	WCX M5 AT RMS CDS-JV	Extensive presentations, consultation and collaboration has occurred since the commencement of the project to ensure the requirements of FRNSW are incorporated. The Fire Engineering Brief (FEB) has been issued previously and the Fire Engineering Report (FER) was issued in August 2017.
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	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 <b>consultation</b> 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	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.
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	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.

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Ref	Sub Ref	Condition of Approval	Timing/phase										Secretary's Approval	Date of first submission	Date of Secretary's Approval	Date completed	Compliance Status	Responsibility	Comment / evidence (Quarter 6) (25/11/17 - 24/2/18)	
			1A: C1-C3	1B: C4-C11	1C: HV Power	2A: C1-C3	2B: C4-C6	2C: C7	2D: C8-C11	3 (Tunnels)	4: C12-C13									
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 <b>Independent Environmental Audit</b> of the SSI. The Independent Environmental Audit must:	N	N	N	N	N	N	N	N	N	N	Within 12 months of commencement of operation	N	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.
E51	(a)	be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been approved by the Secretary;																	This condition will be addressed in the OEMP and reported on in the relevant operational compliance report.	
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.																		
E51		Notes: <ul style="list-style-type: none"> <li>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.</li> <li>The audit may be staged to suit the staged operation of the SSI.</li> </ul>																		

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# Quarterly Construction Compliance Report: No. 6



## Appendix B: Revised Environmental Management Measures

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# Quarterly Construction Compliance Report: No. 6



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Traffic and transport	TT01	<p>A <u>Construction Traffic Management and Safety Plan (CTMSP)</u> 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"> <li>· Signage requirements (eg temporary speed restrictions, changes to the road environment, traffic management controls)</li> <li>· Lane possession and approval process during periods of online construction (eg line marking and temporary barriers)</li> <li>· Traffic control devices such as traffic signals</li> <li>· 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)</li> <li>· Details of both the general approach to be used for access and egress to construction compounds and the specific controls required at specific locations</li> <li>· Any specific provisions required to manage potential impacts to sensitive users, such as schools, child care centres and health facilities.</li> <li>· Strategies to minimise impacts on on-street car parking due to construction workers.</li> </ul> <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	6 months review of CTMSP was submitted 28/08/2017 under revision 5
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	<p>Road disruptions are being minimised as much as possible (and where possible) through construction methodology and traffic staging and the development of Traffic Management Plans.</p> <p>All traffic management plans are being assessed and approved via Sydney Coordination Office.</p>
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	<p>Road disruptions are being minimised as much as possible (and where possible) through construction methodology and traffic staging and the development of Traffic Management Plans.</p> <p>All traffic management plans are being assessed and approved via Sydney Coordination Office.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	<p>Road disruptions are being minimised as much as possible (and where possible) through construction methodology and traffic staging and the development of Traffic Management Plans.</p> <p>All traffic management plans including details of traffic volumes and timeframe are being developed and approved via Sydney Coordination Office after evaluation of each proposal.</p>
Traffic and transport	TT05	Work areas would be isolated from general traffic using temporary safety barriers where possible.	Construction	Compliant	CDS-JV	<p>RMS approved concrete safety barriers are being used on the project as a primary control to isolate the work area from live traffic.</p> <p>Recently, Bourke Road Traffic management plan was implemented with installation of barriers along the shoulder to protect the work zone.</p>
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	<p>A traffic control room has been established and is fully operational for construction of the project. In total there are 24 CCTV cameras in use on the Project (19 CCTV cameras from TMC with an additional 5 cameras since acquired). Temporary VMS are also available for the project as required.</p>
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	<p>Data collection has been undertaken where required to estimate potential impacts of the project related to construction traffic staging. Independent traffic switches required to enable traffic staging on the project have been evaluated with traffic modelling using SIDRA intersection software. Staging works that cause traffic disruption are provided in a traffic management plan for RMS approval.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	All impacts on pedestrian paths and cycle lanes are minimised and presented as part of the Traffic management plan (TMP) process for RMS approval.
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	<p>A bus stop along Euston Road Northbound south of Maddox Street has been relocated north of Maddox Street. This Bus Stop relocation is part of long term plan for Euston Road stage 1 B approved under a Traffic management plan. In addition the Bus Stop along Euston Road Southbound, north of Maddox Street was temporary closed for two weeks with alternative bus stop within 400m was proposed.</p> <p>Consultation and approval were conducted in liaison with Transport for NSW.</p>
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	<p>This is managed through the fortnightly traffic coordination group meetings. Then formal traffic management plans are developed to address property accesses as part of each plans (when required).</p> <p>Additional interface with Councils is organised via CDSJV community team to inform and consult of any upcoming closures and/or when required for specific impacts.</p> <p>ER: Confirmed during ER inspection of local road closures on 2 Sept 2017.</p>
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	<p>A 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"> <li>- City of Sydney</li> <li>- Georges River</li> <li>- Inner West</li> <li>- City of Botany Bay</li> <li>- Rockdale City Council</li> </ul>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
						<p>- Canterbury-Bankstown</p> <p>The Spoil Management Plan was updated to address feedback received during consultation. Revision 6 of the plan was submitted to DP&amp;E on 4/11/16, which was conditionally approved on 23/11/2016. The Plan was updated in accordance with the conditional approval and resubmitted to DP&amp;E on 12/01/2017.</p> <p>ER: A review of the implementation of the Plan by the ER on 8 Feb 2018 indicated that it is being implemented although some minor updates are required.</p>
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	Refer to CoA B59 (Appendix A)
Traffic and transport	TT13	Road occupancy licences would be obtained where required.	Construction	Compliant	CDS-JV	ROs are being systematically obtained with TMC under their Oplink Procedure.
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	<p>The CTSMP was provided to the following emergency services on 3/5/16 for consultation:</p> <ul style="list-style-type: none"> <li>· NSW Police</li> <li>· NSW State Emergency Service</li> <li>· NSW Fire and Rescue</li> <li>· NSW Ambulance</li> </ul> <p>Ongoing consultation is being undertaken via the transport and traffic liaison group (TTLG).</p>
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 being used during the construction phase as described in Section 5.7 of the Ancillary Facilities Management Plan (AFMP; M5N-ES-PLN-PWD-0026; Revision 6 submitted to DPE 11/01/17).

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Traffic and transport	OpTT 01	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	Compliant	CDS-JV	Refer to CoA B49 (Appendix A)
Traffic and transport	OpTT 02	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	Not yet triggered	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	OpTT 03	During detailed design, the ability to further reduce the width of Euston Road would be investigated through: <ul style="list-style-type: none"> <li>Further reductions in the lane widths and/or</li> <li>Minimising the extent of, or need for, the central turning lane along Euston Road.</li> </ul> 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	Compliant	WCX M5 AT	The bus lane turning right into Sydney Park Road from Euston Road has been removed during detailed design to reduce the width of Euston Road.
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	Refer to CoA D68(e) (Appendix A)
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 are completed by the Environmental Coordinators and the Environmental Representative during the construction phase of the project, to monitor compliance with the CAQSP.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Air quality	AQ03	Develop and implement a stakeholder communications plan that includes community engagement before work commences on site.	Pre-construction	Compliant	CDS-JV	The Community Communication Strategy (CCS)(M5N-CS-PLN-PWD-0008 Rev 04) has been reviewed, updated and forwarded to DPE. Further, as per section 6.7 of the CCS, SMC has formed an Air Quality Community Consultative Committee.
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 with project contact details is provided at the boundary fencing of all New M5 construction compound sites.
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 are completed by the Environmental Coordinators and the Environmental Representative during the construction phase of the project, to monitor compliance with the AQMP.
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 receive inductions and ongoing training via toolbox talks to ensure awareness of dust management measures. Construction site boundaries are typically enclosed by noise barriers, hoardings and / or shade cloth type barriers which assist to reduce dust emissions.
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	Refer Section 6 (AQ2) of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16). Weekly environmental inspections are completed by the Environmental Coordinators and the Environmental Representative during the construction phase of the project, to monitor compliance with the AQMP and this REMM.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 are completed to monitor compliance with the CAQSP and this REMM. Toolbox talks are provided to ensure ongoing awareness of this issue is 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).  Compliance with this requirement has been confirmed during inspections for the period.
Air quality	AQ10	Not used.				
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). Compliance with this requirement has been confirmed during inspections for the period.
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). Water supplies have been provided and are being used at all construction sites, including water carts for dust suppression. Non-potable water has been used at the Arncliffe Construction Compound during the reporting period.
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). This measure has been implemented where feasible.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). The crushing plant in use at SPI uses fine water sprays. This measure is also considered for activities where potential dust impacts may occur.
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). Spill kit locations are identified on Site Environmental Plans and spill response is addressed in inductions and toolbox talks.
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).
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). Compliance with this requirement has been confirmed during inspections for the period.
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). Management of dust associated with stockpiles is managed through covering the stockpile and spraying with water and/or polymer. Compliance with this requirement has been confirmed during inspections for the period.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). Deliveries of bulk cement are used at Arncliffe in accordance with this requirement.
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). Small supplies of cement, lime and bentonite are stored in bags which are sealed until they are used. Bags are used completely.
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 are used on the project at construction sites and compounds as required to remove material from roads. Compliance with this requirement has been confirmed during inspections for the period.
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). Sweepers use water spray. This has been confirmed during inspections for the period.
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).  All haulage trucks on boarded onto the project are checked to ensure mechanical covers are in position & operational on the truck. Daily monitoring from site teams is undertaken to ensure compliance with this requirement and is captured as part of a Chain of Responsibility (CoR) inspection audit.  Traffic controllers are also managing this requirement at site exit gates. This has been confirmed during inspections for the period.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 are undertaken daily, weekly and monthly during construction.
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). Spoil team personnel drive the approved road network daily and no issues with air quality have been raised during the reporting period.
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). During the reporting period, the sites are at various stages of construction with some internal haul roads completed and others still under development. Haulage routes are monitored by site teams and are cleaned and maintained as required. No issues raised to date
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).  This has been confirmed during inspections for the period.
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). This has been confirmed during inspections for the period.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). This measure was identified as an Area of Concern during ER audits for the Q2 period. Additional checks have since been included in pre-start forms to check for non-compliant exhaust emissions.
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). This requirement is monitored on sites by Site Foremen. Inspections during the period have not identified any non-compliances with this requirement.
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). All sites now have access to mains power and use of generators is avoided where possible.
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.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). No burning of waste occurs at project sites. Compliance with this requirement has been confirmed during inspections for the period.
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). This process has been implemented during demolition in the reporting period.
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. Compliance with this requirement has been confirmed during inspections for the period.
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). No blasting has been used for demolition in the reporting period.
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). Asbestos removal has been undertaken in accordance with the WHS Regulation 2011.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). Temporarily exposed areas have been covered with polymer and other ground covers. Compliance with this requirement has been confirmed during inspections for the period.
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).  Temporarily exposed areas have been covered with polymer and other ground covers.
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). Works are staged in accordance with this requirement.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	<p>Proponents of other construction works in the vicinity of the SSI are being consulted and reasonable steps are being undertaken to minimise impacts on sensitive receivers.</p> <p>This requirement is incorporated into Section 6 of the Construction Noise and Vibration Management Plan (M5N-ES-PLN-PWD-0003).</p> <p>This quarter the project has continued to consult with the following projects:</p> <ul style="list-style-type: none"> <li>- Marsh Street Widening (VBA JV) works, adjacent to the Arncliffe construction compound (C7)</li> <li>- Green Square Stormwater Project (DG Alliance), Zetland to Alexandria, in proximity to the Local Road Upgrade sites (Huntley St Alexandria)</li> <li>- Sydney Metro project,</li> <li>- development projects on Gardeners Road including Meriton and ICON developments,</li> <li>- proposed M4-M5 link project (SMC).</li> <li>- 33Kv Ausgrid power supply to SPI</li> </ul>
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	<p>Refer Table 10, Section 7 of the Construction Air Quality Sub-Plan (CAQSP; M5N-ES-PLN-PWD-0002; approved 27/07/16).</p> <p>This requirement has been complied with during the period.</p>
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	<p>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).</p> <p>All complaints have been recorded and responded to in accordance with the CCS.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Air quality	AQ45	Make complaints available to the Secretary upon request.	Construction	Compliant	CDS-JV	Refer Section 8.3 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008 Rev 04) . A daily complaints report is provided to EPA and a weekly report to SMC and DPE. The Secretary has access to all complaints and responses at all times.
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). All incidents are recorded in the project's Environment and Safety database.
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"> <li>· Tunnel design</li> <li>· Ventilation design and control</li> <li>· Air treatment systems</li> <li>· Emission controls and other measures</li> <li>· Monitoring.</li> </ul> Refer to Section 10.10.2 of the EIS for detailed discussion of these categories.	Design / Operation	Compliant	CDS-JV	CDS-JV has referred to Section 10.10.2 of the EIS when preparing the design of the Project.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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"> <li>· Assistance in identifying alternative properties</li> <li>· 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)</li> <li>· Access to financial advice for affected households</li> <li>· First language support for households within English as a second language.</li> </ul>	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"> <li>• 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</li> <li>• Provision of an independent service to vulnerable households to assist with their relocation</li> <li>• 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</li> <li>• 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).</li> <li>• 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.</li> <li>• An interpreting service is provided.</li> </ul>
Noise and vibration	NV1	<p>A <u>construction noise and vibration management plan(s)</u> 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"> <li>· Identification of nearby residences and other sensitive land uses</li> <li>· Description of approved hours of work</li> <li>· Description and identification of construction activities, including work areas, equipment and duration</li> <li>· Description of what work practices (generic and specific) will be applied to minimise noise and vibration</li> <li>· A complaints handling process</li> <li>· Noise and vibration monitoring procedures</li> <li>· Overview of community consultation required for identified high impact works.</li> </ul>	Pre-construction	Compliant	CDS-JV	Refer to CoA D68(b) (Appendix A)

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 (TH014-05 01F01 WCX-NM5 CNVMP). Requirements regarding noise and vibration are included in Project and site inductions.
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 (TH014-05 01F01 WCX-NM5 CNVMP). Compliance with this requirement can be evidenced via Out of Hours works approvals.
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 (TH014-05 01F01 WCX-NM5 CNVMP). Permanent noise barriers form part of the operational design and will be installed as early as possible, once the project's Urban Design and Landscape Plan is finalised.
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 Section 6.2 of the Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5 CNVMP). Permanent noise barriers form part of the operational design and will be installed as early as possible, once the project's Urban Design and Landscape Plan is finalised. An update to the progress of installation of property treatments is provided to DP&E weekly (refer CoA D19).  ER: Confirmed during previous review of compliance with D19
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 (TH014-05 01F01 WCX-NM5 CNVMP). Acoustic sheds have been constructed at all sites supporting tunnel spoil removal activities, including C1, C4 and C5 compounds.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 (TH014-05 01F01 WCX-NM5 CNVMP), the Construction Noise and Vibration Impact Statements and the Temporary Noise Barrier Strategies required under CoA D20 (Kingsgrove strategy approved 23/6/16). Temporary noise barriers are being constructed in accordance with the approved Temporary Noise Barrier Strategies. Compliance with this requirement has been confirmed at ER inspections during the period.
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 (TH014-05 01F01 WCX-NM5 CNVMP).
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 (TH014-05 01F01 WCX-NM5 CNVMP).
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 (TH014-05 01F01 WCX-NM5 CNVMP).
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 (TH014-05 01F01 WCX-NM5 CNVMP) which outlines specific methods for undertaking noise monitoring during the construction phase of the project. Noise monitoring requirements at sensitive receivers are identified in the relevant CNVIS for each area of works.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 (TH014-05 01F01 WCX-NM5 CNVMP). As an example the SPI VMP does not allow for reversing of vehicles near residential areas.  ER: Confirmed during weekly ER inspections
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 (TH014-05 01F01 WCX-NM5 CNVMP). The ER confirmed compliance with this requirement during ER inspections in the reporting period.
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 (TH014-05 01F01 WCX-NM5 CNVMP). The ER confirmed during inspections in the reporting period that all deliveries to occur outside standard hours require an out of hours works permit.
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 in the Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5 CNVMP).  Site-specific measures are provided in the Construction Noise and Vibration Impact Statements developed for each area of works.
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	Refer Section 3.2.3 in the Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5 CNVMP).  Compliance with this requirement was confirmed by ER inspections / audits during the reporting period.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 (TH014-05 01F01 WCX-NM5 CNVMP).  Trucks are ordered (ie number and timing) for each site daily with site access and haul route details forwarded to the truck contractors. The haul routes and specific details for access are addressed in the Delivery & Cartage Driver Induction (115 completed to date).
Noise and vibration	NV18	Deliveries and spoil removal will be planned to avoid queuing of trucks around construction compounds.	Construction	Compliant	CDS-JV	This is addressed in the Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5) and the Spoil Management Plan (M5N-PM-PLN-PWD-0002). Trucks are ordered daily and individual arrival times are required for each truck.
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 to CoA B58 (Appendix A)
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 in the Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5 CNVMP). The ER confirmed during inspections in the previous reporting period that separation distances between vibration intensive plant and sensitive locations/items are established during design of works.
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 in the Construction Noise and Vibration Management Plan (TH014-05 01F01 WCX-NM5 CNVMP) which specifies the methods for undertaking vibration monitoring during the construction phase of the project.  The ER confirmed during inspections in the Q3 2017 reporting period that vibration monitoring is undertaken regularly during site activities.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 to CoA B58 (Appendix A)
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 (TH014-05 01F01 WCX-NM5 CNVMP).
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 (TH014-05 01F01 WCX-NM5 CNVMP).  The ER confirmed during inspections in the Q3 2017 reporting period that the tunnelling Construction Noise and Vibration Impact Statement outlines the scope of the ground-borne noise assessment and that vibration monitoring is planned to confirm predictions.
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	A Blast Management Strategy has been prepared in accordance with this condition, and was submitted to DP&E on 16/01/2017. An application to vary the project's EPL to permit blasting activities was approved by EPA on 10/07/17.
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). Blasting commenced from September 2017 for the project. A Blast Management Strategy has been prepared and was submitted to DP&E on 16/01/2017.  An application to vary the number of blasts at Arncliffe to two blasts was submitted to EPA on 16th October 2017 and was approved via licence variation on 1st December 2017. This allowed for two detonations in any one day, and a maximum of 12 blasts a week and an increase

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
						in blasting hours between 7am-6pm Monday to Friday and between 8am-1pm on Saturdays at the Arncliffe site.
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	<p>This is addressed in Section 4.1.7 and 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP).</p> <p>A Blast Management Strategy has been prepared and was submitted to DP&amp;E on 16/01/2017, prior to any blasting. Potential vibration and air blast overpressure impacts generated through blasting will be managed through the Strategy.</p> <p>Trial blasting commenced at Arncliffe on 27th August 2017.</p> <p>Trial blasting commenced at Kingsgrove on 20th November 2017.</p> <p>Trial blasting commenced at St. Peters on 15th September 2017.</p> <p>Blasting has been ongoing from these dates.</p>
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	Compliant	CDS-JV	<p>This requirement is addressed in Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP).</p> <p>Dilapidation surveys have commenced for the Project (refer CoA B58, Appendix A). A Blast Management Strategy has been prepared to comply with this condition, and was submitted to DP&amp;E on 16/01/2017.</p>

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	Compliant	CDS-JV	This requirement is addressed in Section 6.2 of the Construction Noise and Vibration Management Plan (CNVMP; TH014-05 01F01 WCX-NM5 CNVMP) and the Blast Management Strategy, submitted to DP&E on 16/01/2017.
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	Community updates and notifications are provided prior to the commencement of activities including tunnelling and noise-generating activities. These notifications are provided at least two weeks prior to the start of work. A piling ad compaction fact sheet has also been prepared and distributed for stakeholders within 500m radius of the SPI. Individual sensitive receivers have been provided with various forms of respite including alternative accommodation, noise cancelling headphones and offers for individualised moulded ear plugs.
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	Compliant	CDS-JV	This is addressed in the Heavy Vehicle Movement Report: Use of Wirega Avenue and Garema Circuit at Kingsgrove (M5N-TM-RPT-KGD-0001), approved by DP&E 19/10/16.
Noise and vibration	OpNV 01	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 (TH014-05 01F01 WCX-NM5 CNVMP). The need for operational acoustic treatments is being identified during detailed design. Where identified, these treatments are being offered as early in the construction program as possible and regular updates are provided to DP&E in regards to status of offers and installation
Noise and vibration	OpNV 02	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	Not yet triggered	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.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Noise and vibration	OpNV 03	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	<p>Detailed 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.</p> <p>Evidence of compliance against this requirement will be provided in the relevant design reports and will be confirmed during independent certification.</p>
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	Community updates and notifications are provided prior to the commencement of activities including tunnelling and noise-generating activities. These notifications are provided at least two weeks prior to the start of work. A piling and compaction fact sheet has also been prepared and distributed for stakeholders within 500m radius of the SPI. Individual sensitive receivers have been provided with various forms of respite including alternative accommodation, noise cancelling headphones and offers for individualised moulded ear plugs.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	Specific notifications detailing traffic changes are distributed at least five days prior to the traffic change. Email notices are also sent in the days prior to the traffic changes. Liaison with the Traffic team ensures stakeholder requirements are maintained during traffic changes.
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	<p>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).</p> <p>Signage strategies for any walking track closures are provided as part of the Traffic management plan (TMP) process. All required signage is presented within a traffic control plan within the TMP for approval by RMS.</p> <p>Note: ER confirmed compliance with this requirement during an inspection of Local Roads on 2nd September 2017.</p>
Land use and property	LP06	<p>A <u>Settlement Monitoring Plan</u> would be prepared that would provide details on:</p> <ul style="list-style-type: none"> <li>· Location of monitoring points</li> <li>· Duration of monitoring</li> <li>· Data collection and review</li> <li>· Roles and responsibilities for review of data</li> <li>· Triggers and actions for corrective actions.</li> </ul>		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 to CoA B58 (Appendix A)

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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.
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	OpLP 01	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	OpLP 02	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	Not yet triggered	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.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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"> <li>Vegetation surrounding the Bexley Road East construction compound, particularly along the boundary between residential properties and the compound along the northern and eastern boundaries</li> <li>Mature trees along the north-west (Marsh Street) and south-west boundaries of the Arncliffe construction compound site</li> <li>Mature trees and vegetation along the boundary of Sydney Park along Campbell Road and Barwon Park Road.</li> </ul>	Pre-construction Construction	Compliant	CDS-JV	Retention of vegetation at construction compounds is being considered through the Tree Reports required under CoA B63. Refer to Appendix A.
Visual impacts and urban design	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	This requirement is addressed in Appendix B of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026; approved 9/06/16). This requirement is addressed in the Urban Design and Landscape Plan required by CoA B61 and B62.
Visual impacts and urban design	V03	Revegetation and landscaping would be undertaken progressively.	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 is being prepared in consultation with the Urban Design Review Panel. The UDLP was submitted to DPE for approval on 10/07/17. Approval of the western work area was given by DPE on 26/10/17 and approval of the eastern precinct given 24/01/18 subject to a number of exceptions.
Visual impacts and urban design	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, (refer Appendix A). Temporary noise barriers associated with construction compounds have been 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).  An Official Caution was issued by DPE on 9/03/18 in relation to the erection of a sea container noise wall at Arncliffe where DPE held the view that it had not been approved prior to erection and was a breach of CoA A2(b)

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Visual impacts and urban design	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).
Visual impacts and urban design	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). This requirement is monitored during daily site inspections undertaken by the Site Supervisors and weekly environmental inspections undertaken by Environmental Coordinators
Visual impacts and urban design	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	Acoustic sheds have been designed during detailed construction noise assessment. Specifications for acoustic shed design are provided in the Construction Noise and Vibration Impact Statements. Acoustic sheds use mid-toned colours to minimise impact and glare.
Visual impacts and urban design	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 will continue during construction to maintain open dialogue.
Visual impacts and urban design	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). Construction lighting is being installed in accordance with the relevant standards.
Visual impacts and urban design	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). Construction lighting is being installed in accordance with the relevant standards.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	Signage strategies for any walking track closures are provided as part of the Traffic management plan (TMP) process. All required signage is presented within a traffic control plan within the TMP for approval by RMS.  In addition, all traffic closures are announced via VMS strategy also approved by RMS through traffic management process.
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). Construction lighting is being installed in accordance with the relevant standards.
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"> <li>Between the Kingsgrove North construction compound to the adjoining residential areas to reduce shading and visual impacts</li> <li>Between the Bexley Road North and Bexley Road East construction compounds and adjoining residential areas to reduce shading and visual impacts.</li> </ul>	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) and was considered during design of the construction compounds.
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 6.12 of the Ancillary Facilities Management Plan (M5N-ES-PLN-PWD-0026) and was considered during design of the construction compounds. Vegetation has been retained where possible at the Kingsgrove North and Bexley East construction compounds. Additional privacy measures have been implemented at the Bexley North compound where separation is highly constrained.
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 is addressed in the Urban Design and Landscape Plan (UDLP) required by CoA B61 and B62. The UDLP has been prepared in consultation with the Urban Design Review Panel and the community. The UDLP was submitted to DP&E for approval on 10/07/17. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
						Compliance against this REMM will be reported on in the quarterly compliance reports subsequent to finalisation of the UDLP.
Visual impacts and urban design	OpV0 2	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	This requirement is addressed in the Urban Design and Landscape Plan (UDLP) required by CoA B61 and B62. The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community. Package 1 of the UDLP was submitted to DP&E on 13/04/2017. Package 2 of the UDLP was submitted on 10/07/17. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.
Visual impacts and urban design	OpV0 3	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	This requirement is addressed in the Urban Design and Landscape Plan (UDLP) required by CoA B61 and B62. The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community. Package 1 of the UDLP was submitted to DP&E on 13/04/2017. Package 2 of the UDLP was submitted on 10/07/17. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.
Visual impacts and urban design	OpV0 4	Pedestrian and shared paths would be aligned away from residential property boundaries where public open space adjoins residential boundaries.	Pre-construction	Compliant	CDS-JV	This requirement is addressed in the Urban Design and Landscape Plan (UDLP) required by CoA B61 and B62. The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community. Package 1 of the UDLP was submitted to DP&E on 13/04/2017. Package 2 of the UDLP was submitted on 10/07/17. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Visual impacts and urban design	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	This requirement is addressed in the Urban Design and Landscape Plan (UDLP) required by CoA B61 and B62. The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community. Package 1 of the UDLP was submitted to DP&E on 13/04/2017. Package 2 of the UDLP was submitted on 10/07/17. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.
Visual impacts and urban design	OpV06	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): <ul style="list-style-type: none"> <li>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.</li> <li>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</li> <li>The artwork strategy for the Kindilan underpass</li> <li>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)</li> <li>Consideration of the outcomes of the Safety in Design review of the project.</li> </ul>	Pre-construction	Compliant	CDS-JV	<p>Hassel has been engaged to develop the Project's Urban Design and Landscape Plan (UDLP).</p> <p>In accordance with this condition, the UDLP is being submitted for the approval of the Secretary in two packages prior to the commencement of the relevant permanent built works and/or landscaping.</p> <p>Both packages of the UDLP have been reviewed by the UDRP in accordance with B60.</p> <p>The first package was approved by DPE on 18/7/17.</p> <p>DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.</p> <p>A schedule of remaining submissions covering additional items to be included has been prepared.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Visual impacts and urban design	OpV07	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.	Pre-construction	Compliant	CDS-JV	<p>This requirement is addressed in the Noise Barrier Location and Design Sub-plan, which forms part of Package 2 of the Urban Design and Landscape Plan (UDLP).</p> <p>The Noise Barrier Location and Design Sub-plan has been developed in consultation with the UDRP, councils and the community as part of Package 2 of the UDLP. The Noise Barrier Location and Design Sub-plan was submitted to DPE on 9/10/17 with a response to DPE's comments submitted on 7/12/17.</p> <p>The Noise Barrier Location and Design Sub-Plan was approved by DPE on 29/03/18 (outside the reporting period)</p>
Visual impacts and urban design	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 is addressed in Package 2 of the Urban Design and Landscape Plan (UDLP). The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community.</p> <p>Package 1 (Western Surface Works - Retaining Walls) was approved by DPE on 18/7/17.</p> <p>Comments from DPE were received on 7 August 2017 for Package 2 (main UDLP). Response to DPE's comments were submitted on 17 October 2017. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.</p> <p>A schedule of remaining submissions covering additional items to be included has been prepared.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Visual impacts and urban design	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 is addressed in Package 2 of the Urban Design and Landscape Plan (UDLP). The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community.</p> <p>Package 1 (Western Surface Works - Retaining Walls) was approved by DPE on 18/7/17.</p> <p>Comments from DPE were received on 7 August 2017 for Package 2 (main UDLP). Response to DPE's comments were submitted on 17 October 2017. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.</p> <p>A schedule of remaining submissions covering additional items to be included has been prepared.</p>
Visual impacts and urban design	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 is addressed in Package 2 of the Urban Design and Landscape Plan (UDLP). The UDLP has been prepared in consultation with the Urban Design Review Panel, councils and the community.</p> <p>Package 1 (Western Surface Works - Retaining Walls) was approved by DPE on 18/7/17.</p> <p>Comments from DPE were received on 7 August 2017 for Package 2 (main UDLP). Response to DPE's comments were submitted on 17 October 2017. DPE approval of the western precinct was provided 26/10/17 and approval of the eastern precinct was given 24/01/18 subject to a number of exceptions.</p> <p>A schedule of remaining submissions covering additional items to be included has been prepared.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Visual impacts and urban design	OpV1 1	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	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 will continue during design and construction to address issues as they are identified.
Visual impacts and urban design	OpV1 2	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	This requirement has been addressed in the lighting design packages for the project.
Visual impacts and urban design	OpV1 3	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	Opportunities to minimise overshadowing have been investigated as part of the development of the concept design for overbridge on Campbell Street, developed as part of the MCoA 62(a) Campbell Road Crossing sub-plan. It is noted that construction of the overbridge will occur in Stage 3 and is no longer part of the New M5 scope of work.
Social and economic	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	The Community Communications Strategy (M5N-CS-PLN-PWD-0008) has been developed in accordance with CoA C1 and reviewed with the final draft submitted to DPE September 2017.
Social and economic	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).
Social and economic	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	CDS JV continues to utilise the toll free 24hr telephone number, the info@newm5.com.au email address for complaints and enquiries'. Stakeholder complaints and enquiries are responded to within the time limits as outlined in The Community Communication Strategy (CCS)(M5N-CS-PLN-PWD-0008 Rev 04). A daily report is provided to EPA and a weekly register to DPE.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Social and economic	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	Details of impacts to business are maintained in the project database Consultation Manager. Businesses are invited to construction briefings and face to face meetings are held as required.
Social and economic	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	Ongoing consultation and engagement with the various businesses on the alignment provide positive relationships and trust in accordance with Section 7 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008)
Soil and water quality	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	Refer CoA D68(f) (Appendix A)
Soil and water quality	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) has been developed to incorporate 'best practice' controls and measures in accordance with the Blue Book.
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) incorporates the RMS' Erosion and Sedimentation Risk Assessment Procedure (RTA, 2008) throughout. Erosion and sedimentation control plans are developed for each area of works by the project's soil conservationist and are reviewed and updated regularly.
Soil and water quality	SW04	The Soil and Water Management Plan would include: <ul style="list-style-type: none"> <li>· Construction traffic restricted to delineated access tracks, and maintained until construction complete</li> <li>· Appropriate sediment and erosion controls to be implemented prior to soil disturbance</li> <li>· Stormwater management to avoid flow over exposed soils which may result in erosion and impacts to water quality</li> <li>· Stockpiles located outside the 20 year ARI flood extent where feasible. Otherwise, appropriate management control measures such as bunding would be implemented</li> <li>· 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</li> <li>· Site compounds sealed or hard stand to minimise erosion where possible</li> <li>· Wheel wash or rumble grid systems installed at exit points to minimise dirt on roads</li> </ul>	Pre-construction Construction	Compliant	CDS-JV	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) and Section 5 of the Water Quality Plan & Monitoring Program (M5N-ES-PLN-PWD-0027) – Water Quality Performance Standards.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		<ul style="list-style-type: none"> <li>· 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)</li> <li>· 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</li> <li>· 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</li> <li>· 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</li> <li>· Stockpiles would be located outside of riparian corridors.</li> </ul>				
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) 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). This requirement is being complied with through the tunnel construction water treatment plant specifications and procedures for discharge
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"> <li>· Sampling locations to include upstream (control) and downstream measurement locations</li> <li>· Samples taken twice a month, once in dry conditions and once in wet conditions where possible</li> <li>· In-situ monitoring of:               <ul style="list-style-type: none"> <li>- pH</li> <li>- Reduction Oxidation Potential</li> <li>- Dissolved Oxygen</li> <li>- Temperature</li> </ul> </li> </ul>	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. The Surface Water Baseline Monitoring Report provides 12 months of pre-construction monitoring data. Surface water and groundwater continues to be monitored and reported on throughout construction in accordance with the Water Quality Plan and Monitoring Program.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		<ul style="list-style-type: none"> <li>- Conductivity</li> <li>- Turbidity</li> <li>- Colour</li> <li>- Odour</li> <li>- Analytical sampling of the following potential constituents of concern:               <ul style="list-style-type: none"> <li>- Total Recoverable Hydrocarbons</li> <li>- Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene</li> <li>- Nutrients including: Total Nitrogen, Total Kjeldahl Nitrogen, Nitrogen Oxide, Nitrite, Nitrate, Total Phosphorous and Reactive Phosphorous</li> <li>- Heavy metals (Arsenic, Cadmium, Copper, Chromium, Lead, Mercury, Nickel, Zinc)</li> <li>- Manganese</li> <li>- Ferrous Iron and Total Iron.</li> </ul> </li> </ul>				
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) and the Flora and Fauna Sub Plan (M5N-ES-PLN-PWD-0007) reference the requirement for monitoring in accordance with the Green and Golden Bell Frog Plan of Management – Arncliffe.
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 is addressed in the Sustainability Plan (M5N-ES-PLN-PWD-0020), Sustainability Initiatives Register and appraisal procedure. It is an operational requirement and will therefore be addressed in the operational-phase Water Reuse Strategy for the project. Evidence for compliance against this requirement will be provided in the compliance tables in the Operational-phase Water Reuse Strategy.
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	The Acid Sulfate Soils Management Plan (M5N-ES-PLN-PWD-0031), forms an Appendix to the approved Construction Soil and Water Quality Sub-plan (M5N-ES-PLN-PWD-0005), which forms part of the Construction Environmental Management Plan (CEMP; M5N-ES-PLN-PWD-0001) for the project.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). Acid Sulfate Soils have been identified in the Soil Contamination Reports required by CoA B31, and are managed through management measures provided in the relevant report. Unexpected finds are managed through the Manage Acid Sulfate Soils Procedure (M5N-ES-PRC-PWD-0038) 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. Discharges from the leachate treatment plant are in accordance with Sydney Water trade waste agreement No. 32539.
Soil and water quality	SW12	The following measures would be in place to manage spills of contaminated fluids: <ul style="list-style-type: none"> <li>• Areas would be allocated for the storage of fuels, chemicals and other hazardous materials</li> <li>• Facilities would be secured and bunded to levels dictated by Environment Protection Authority guidelines</li> <li>• Spills or contaminated runoff would be captured and treated and / or disposed of at a licensed facility</li> <li>• 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.</li> <li>• 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</li> <li>• 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</li> <li>• Potential discharges from construction sites would be managed through the installation of basins (primarily designed for sediment capture but with capacity to</li> </ul>	Construction	Non compliant	CDS-JV	These measures are incorporated into the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005), Section 7.1, Table 12 and the Appendix B (A171-A179) Ancillary Facilities Management Sub Plan (M5N-ES-PLN-PWD-0026).  Measures are inspected by the Environmental Coordinators during the weekly environmental inspections.  ER: An inspection of the Commercial Road, Kingsgrove tunnelling site on 18 January 2018 indicated the bulk diesel tank to be located not in accordance with the EPA's bunding guidelines. This was actioned by close of business on Friday 19 January 2018.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		contain the nominated spill volume) constructed in accordance with The Blue Book <ul style="list-style-type: none"> <li>• Captured contaminants resulting from spills or leaks would be treated and disposed of at a licensed facility</li> <li>• Any soil which has been contaminated with fuel, oils or other chemicals would be disposed as contaminated soil by a waste subcontractor.</li> </ul>				
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	This is addressed in the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005), Section 7.1 Table 12, project controls associated with management of soil and water quality. Construction compounds/sites have been established/constructed to minimise disturbance to waterways and waterfront land where possible.
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 is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. All Drainage design reports are expected to be completed by December 2017.
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 is considered where relevant in the relevant Erosion and Sediment Control Plan. This requirement is being addressed for permanent drainage works in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. All Drainage design reports are expected to be completed by December 2017.
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	This is addressed in the Construction Soil and Water Quality Sub-Plan (M5N-ES-PLN-PWD-0005), Section 7.1, Table 12, project controls associated with management of soil and water quality. Exposed areas are temporarily stabilised / vegetated until final rehabilitation works are undertaken in accordance with the Urban Design and Landscape Plan (M5N-HSL-MNP-100-110-TR-1970), to be finalised prior to the commencement of permanent

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
						landscaping/rehabilitation works.
Soil and water quality	OpSW 01	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 is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. All Drainage design reports are expected to be completed by December 2017.
Soil and water quality	OpSW 02	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 Wollie Creek catchment.	Design Operation	Compliant	CDS-JV	A replacement operational water quality device has been installed to treat existing stormwater discharges and WQP-2 was subsequently decommissioned in the Q4 reporting period.  Prior to receiving operational stormwater discharge, an additional water treatment device will be installed to offset the additional stormwater discharge associated with operation of the project.
Soil and water quality	OpSW 03	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"> <li>• Sampling locations to include upstream (control) and downstream measurement locations</li> <li>• Samples taken twice a month, once in dry conditions and once in wet conditions where possible</li> <li>• In-situ monitoring of: <ul style="list-style-type: none"> <li>- pH</li> <li>- Reduction Oxidation Potential</li> <li>- Dissolved Oxygen</li> <li>- Temperature</li> <li>- Conductivity</li> <li>- Turbidity</li> </ul> </li> </ul>	Operation	Not yet triggered	WCX M5 AT	Operational water quality monitoring must be conducted for a minimum 3 year period or until the affected waterways and/or groundwater resources are certified by a suitably qualified and experienced independent expert as being rehabilitated post-construction in accordance with CoA B28.  This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		<ul style="list-style-type: none"> <li>- Colour</li> <li>- Odour</li> <li>• Analytical sampling of the following potential constituents of concern:               <ul style="list-style-type: none"> <li>- Total Recoverable Hydrocarbons</li> <li>- Benzene, Toluene, Ethylbenzene, Xylene and Naphthalene</li> <li>- Nutrients including: Total Nitrogen, Total Kjeldahl Nitrogen, Nitrogen Oxide, Nitrite, Nitrate, Total Phosphorous and Reactive Phosphorous</li> <li>- Heavy metals (Arsenic, Cadmium, Copper, Chromium, Lead, Mercury, Nickel, Zinc)</li> <li>- Manganese</li> <li>- Ferrous Iron and Total Iron.</li> </ul> </li> </ul>				
Soil and water quality	OpSW 04	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 is being addressed in the relevant Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. The Drainage design reports relating to this requirement are expected to be completed by December 2017.
Soil and water quality	OpSW 05	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 is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. The relevant Drainage design reports are expected to be completed by December 2017.
Soil and water quality	OpSW 06	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	This is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. The relevant Drainage design reports are expected to be completed by December 2017.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Soil and water quality	OpSW 07	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 Arncliffe Motorway Operations Complex Wetland and Water Treatment Plant Design Package and references 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	OpSW 08	Suitably designed scour and erosion control measures would be included in the detailed design.	Design	Compliant	CDS-JV	This is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. The Drainage design reports are expected to be completed by December 2017.
Soil and water quality	OpSW 09	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 is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. The Drainage design reports are expected to be completed by December 2017.
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) has been developed in accordance with CoA B32 and was submitted to DP&E on 30/05/2016. Activities associated with landfill closure are ongoing at the site.
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"> <li>• Contain and treat landfill gas emissions from excavations</li> <li>• Treat offensive odours produced by leachate and landfill gas</li> <li>• Contain, extract and treat leachate within excavations</li> <li>• Protect workers and off-site receptors from exposure to potential biological, chemical and physical hazards encountered during the exhumation of landfill waste.</li> <li>• Manage asbestos contaminated wastes</li> </ul>	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).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	This is addressed in 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). Soil contamination investigations and reports, and Remediation Action Plans, are being undertaken/prepared in accordance with CoA B31 and the CLM Act. Remediation strategies are being reviewed by a site auditor accredited under the CLM Act.
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 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) and the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033), submitted 2/06/2016, 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. Site specific asbestos management plans have been developed where required by the Contamination Assessment Report for the relevant site.
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	HAZMAT Inspection Reports are completed for each property prior to demolition in accordance with the Demolition Plan and Asbestos Management Plan. An independent Occupational Hygienist completes a final inspection to confirm all items listed on the report have been removed.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 in accordance with 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 in accordance with the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033), submitted 2 June 2016.
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) and the Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033). These measures will be incorporated into an update to the Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033) prior to commencement of drainage works in Alexandra Canal.
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 Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033), the Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036), and any relevant Remediation Action Plan for the site. Management of stockpiles is also addressed in the Construction Soil and Water Quality Sub-plan (M5N-ES-PLN-PWD-0005).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 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). All tunnel waste water is directed to the construction water treatment plants prior to discharge in accordance with the requirements of the project EPLs. All tunnel wastes are dealt with in accordance with the Construction Waste and Resource Sub-Plan (M5N-ES-PLN-PWD-0008).
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) and the Construction Waste and Resource Sub-plan (M5N-ES-PLN-PWD-0008). Soil contamination investigations are being undertaken/prepared in accordance with CoA B31 and the CLM Act. Waste classification is being undertaken in accordance with the Construction Waste and Resource Sub-plan.
Contamination	OpCM 1	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	Not yet triggered	WCX M5 AT	This requirement will be reported on during the pre-operation compliance report.
Contamination	OpCM 2	Procedures to address spills, leaks and tunnel washing would be developed and implemented during operation of the project	Operation	Not yet triggered	WCX M5 AT	This requirement will be reported on during the pre-operation compliance report.
Contamination	OpCM 3	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	Compliant	WCX M5 AT	This is being addressed in the Drainage Design Reports, which are being progressively prepared, prior to commencement of the relevant works. The Drainage Design Reports are being prepared in consultation with Sydney Water and the relevant councils and are expected to be completed by December 2017. The Drainage Design Reports for Alexandra Canal will also be provided to EPA for consultation.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Contamination	OpCM 4	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	Not yet triggered	WCX M5 AT	This requirement will be reported on during the pre-operation compliance report.
Flooding and drainage	FD01	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: <ul style="list-style-type: none"> <li>• 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</li> <li>• Design and mitigation measures to protect proposed operations and not worsen existing flooding characteristics during construction and operation, including soil erosion and scouring</li> <li>• Drainage system upgrades</li> <li>• Preparation of a flood / emergency management plan.</li> </ul>	Detailed design Pre-construction	Compliant	CDS-JV	Refer to CoA B23 (Appendix A)
Flooding and drainage	FD02	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.	Detailed design Pre-construction	Compliant	CDS-JV	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, Darren Bell, on 29/4/2016 and was submitted to the Secretary and the relevant council(s) on 25/05/2016. The FMS is being revised to address additional consultation feedback and the revised Stage 1 FMS will be resubmitted to DP&E for approval in June 2018.
Flooding and drainage	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 addressed in the Flood Mitigation Strategy Stage 1 (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016). The FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in June 2018. Operational aspects of the project will be addressed in the Stage 2 FMS, which is expected to be submitted to DP&E in July 2018.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Flooding and drainage	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 and details the relevant mitigation measures that would be undertaken at construction sites. The FMS is informed by Flood Design Reports that detail the design outcomes after the application of the mitigation measures.
Flooding and drainage	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	This requirement is addressed in the Flood Mitigation Strategy Stage 1 (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016). The FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in Feb 2018. Operational aspects of the project will be addressed in the Stage 2 FMS, which is expected to be submitted to DP&E in July 2018.
Flooding and drainage	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 (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016). FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in June 2018. Operational aspects of the project will be addressed in the Stage 2 FMS, which is expected to be submitted to DP&E in July 2018.
Flooding and drainage	FD07	<u>Flood management plans</u> 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	This requirement is addressed in the Flood Mitigation Strategy Stage 1 (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016). The FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in Feb 2018. Drainage design measures have been incorporated into the site layout plans provided in the Ancillary Facilities Management Plan (Appendix F & G).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Flooding and drainage	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	Flood modelling was completed for the Arncliffe/Cooks River area in October 2016 as part of the Flood Mitigation Strategy (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016). This modelling has determined that no inundation would occur as a result of the project at the site and therefore no flood mitigation/additional flood storage is required.  The FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in June 2018. Operational aspects of the project will be addressed in the Stage 2 FMS, which is expected to be submitted to DP&E in July 2018.
Flooding and drainage	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	This requirement is addressed in the Flood Mitigation Strategy (FMS). The FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in June 2018. Operational aspects of the project will be addressed in the Stage 2 FMS, which is expected to be submitted to DP&E in July 2018.
Flooding and drainage	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) identifies the measures required for properties near the Alexandra Canal to prevent inundation during construction. The FMS Stage 1 (revised) will be resubmitted to DP&E in June 2018. The Flood Design Report for SPI/Local Roads identifies the properties that may be affected by flooding as a result of the project and is expected to be finalised in April 2017. The FMS Stage 2 will identify measures required to prevent inundation of properties during the operational phase and is expected to be submitted to DP&E in July 2018.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Flooding and drainage	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	This has been considered during detailed design and the Flood Design Report for SPI/Local Roads will identify the expected inundation at this property.
Flooding and drainage	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.
Flooding and drainage	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. Detailed modelling has been completed for all project areas. The FMS Stage 1 is being revised to address additional consultation feedback and is expected to be resubmitted in June 2018. Operational aspects of the project will be addressed in the Stage 2 FMS, which is expected to be submitted to DP&E in July 2018.
Flooding and drainage	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 Reports. Flood Reports have been completed for the Wolli Creek and Cooks River catchment areas. The Flood Report for the Alexandra Canal catchment was completed in June 2017. Relevant measures are being incorporated into Erosion and Sediment Control Plans.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Flooding and drainage	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"> <li>• Kingsgrove South construction compound (C2)</li> <li>• Commercial Road construction compound (C3)</li> <li>• Bexley Road North construction compound (C4)</li> <li>• Bexley Road South construction compound (C5)</li> <li>• Arncliffe construction compound (C7)</li> <li>• Alexandra Canal bridge construction compound (C12)</li> <li>• Gardeners Road bridge construction compound (C13).</li> </ul> <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 Stage 1 (FMS; M5N-DS-PLN-PWD-0001; submitted to DPE 25/5/2016) documents the design measures to minimise flood impacts of the project during construction.</p> <p>Flood mitigation measures are being incorporated into Erosion and Sediment Control Plans and Construction Area Plans. Emergency procedures are included in the Incident Response Plan (M5N-HS-PLN-PWD-0002).</p>
Flooding and drainage	FD16	<p>The following measures would be implemented to manage flooding risks on construction sites:</p> <ul style="list-style-type: none"> <li>• Temporary bunding around parts of the site that would be adversely affected by floodwaters</li> <li>• Temporary drains / detention areas within the site</li> <li>• Use of carparks to provide detention</li> <li>• Elevation of site buildings where necessary to get floor levels above expected flood levels</li> <li>• 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.</li> </ul>	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). Measures are identified and implemented through the site Erosion and Sediment Control Plans.</p>
Flooding and drainage	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>This is addressed in the relevant Drainage Design Report which has been prepared in consultation with Inner West Council. This will also be addressed in the Stage 2 FMS, which is expected to be submitted to DP&amp;E in February 2018.</p>

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Flooding and drainage	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 for the operational phase (Stage 2 FMS) will detail the design measures to minimise impacts to flooding during operation.</p> <p>The project design includes an assessment of flood impacts for two climate change scenarios:</p> <ul style="list-style-type: none"> <li>- 1 in 20 year ARI event for an increase in rainfall of 10%</li> <li>- 1 in 100 year ARI event for an increase in rainfall of 10%.</li> </ul> <p>The Stage 2 FMS is expected to be submitted to DP&amp;E in February 2018.</p>
Flooding and drainage	OpFD 01	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	This requirement as well as the freeboard requirements of Sydney Water have been addressed in the detailed design for these works.
Flooding and drainage	OpFD 02	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	This is being addressed in detailed drainage design. The Flood Mitigation Strategy Stage 2 will address the design measures to minimise impacts to flooding for operational requirements. The Stage 2 FMS is expected to be submitted to DP&E in February 2018.
Flooding and drainage	OpFD 03	The control and mitigation of potential localised flooding and drainage impacts during operation would include: <ul style="list-style-type: none"> <li>• Drainage systems that are of insufficient capacity would be modified or upgraded to cater for increased flows</li> <li>• Where new drains connect with existing drainage networks a survey and condition assessment would be undertaken to inform detailed design</li> <li>• The efficiency of transverse drainage upgrades would be taken into account during detailed design</li> <li>• The effects a partial blockage of major hydraulic structures on flooding behaviour would be considered when determining finished road level and flood wall heights.</li> </ul>	Detailed design Pre-construction	Compliant	CDS-JV	This is being addressed in detailed drainage design. The Flood Mitigation Strategy Stage 2 will address the design measures to minimise impacts to flooding for operational requirements. The Stage 2 FMS is expected to be submitted to DP&E in July 2018.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Flooding and drainage	OpFD 04	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	This is being addressed in detailed drainage design. The Flood Mitigation Strategy Stage 2 will address the design measures to minimise impacts to flooding for operational requirements. The Stage 2 FMS is expected to be submitted to DP&E in July 2018.
Flooding and drainage	OpFD 05	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	This is being addressed in detailed drainage design. The Flood Mitigation Strategy Stage 2 will address the design measures to minimise impacts to flooding for operational requirements, including climate change impacts. The Stage 2 FMS is expected to be submitted to DP&E in July 2018.
Flooding and drainage	OpFD 06	Emergency response facilities, including the motorway control centre, tunnel fire water tank and pump buildings and associated electrical substations would be located 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	This is being addressed in detailed drainage design. The Flood Mitigation Strategy Stage 2 will address the relevant design measures for operational requirements. The Stage 2 FMS is expected to be submitted to DP&E in July 2018.
Groundwater	GW01	An <u>Acid Sulfate Soil Management Plan</u> (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).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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. Works are being conducted in accordance with the LCMP.
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 approved CEMP includes a Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005). In addition, a Construction Contaminated Land Management Plan (M5N-ES-PLN-PWD-0033), that addresses contaminated groundwater issues, required under CoA D54, 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. Areas of identified contamination are being managed in accordance with Remediation Action Plans, developed in accordance with CoA B31 and the Contaminated Land Management Act 1997. Groundwater contamination will be monitored throughout the construction phase in accordance with the Water Quality Plan and Monitoring Program (M5N-ES-PLN-PWD-0027).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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) for the location of construction water treatment plants. All captured groundwater is sent to the relevant water treatment plant prior to discharge. Discharges from water treatment plants are in accordance with the water quality requirements of the Environment Protection Licence (EPL No. 20772 or No. 4627).
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). All captured groundwater at the Arncliffe construction compound is sent to the construction water treatment plant at this compound for treatment prior to discharge. Any unexpected finds of contamination would be managed in accordance with the Manage Contaminated Land Procedure (M5N-ES-PRC-PWD-0036). Appropriate measures to manage the source of the contamination would be developed in accordance with the requirements of CoA B31.
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) and the Manage Soil and Water Procedure (M5N-ES-PRC-PWD-0035). The approved Water Reuse Strategy identifies options for the reuse of treated water on construction sites.
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).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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.
Groundwater	GW11	The project works would be undertaken in accordance with a CEMP(s) for the project which would include the following management measures: <ul style="list-style-type: none"> <li>• Stockpiles of fuels, hazardous liquids and chemicals would be stored in an impervious bunded area in accordance with Australian Standards and EPA guidelines</li> <li>• The storage of fuels and chemicals would be limited to locations more than 40 metres from any water course</li> <li>• 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 refuelling outside bunded areas. At Arncliffe construction compound, a bunded area would be provided where all refuelling would occur.</li> <li>• 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</li> <li>• 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</li> <li>• Hazardous materials handling procedures would be documented and implemented</li> <li>• 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)</li> <li>• 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.</li> </ul>	Construction	Compliant	CDS-JV	These measures are identified in Section 7.1 of the Construction Soil and Water Quality Sub-plan (CSWQSP; M5N-ES-PLN-PWD-0005). Implementation of these measures are reviewed/inspected by the Environmental Representative during weekly inspections and the Site Environmental Coordinators during weekly environmental inspections. Erosion and sediment controls are also inspected regularly by the Environmental Coordinators, including after rainfall events, and fortnightly by the project Soil Conservationist.  Compliance with this requirement is monitored through the weekly ER inspections.
Groundwater	GW12	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.	Construction	Compliant	CDS-JV	Detailed design for the tunnel waterproofing is addressed in the following design reports which are now finalised: <ul style="list-style-type: none"> <li>- Tunnel Water Resisting Lining Systems</li> <li>- Tunnel Groundwater Control Systems</li> <li>- Tunnel Ground Improvement Grouting.</li> </ul> Waterproofing design requirements from the above reports are being incorporated into tunnelling work packs and procedures.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	This is addressed by the approved Water Quality Plan and Monitoring Program (WQP&MP; M5N-ES-PLN-PWD-0025). 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	Grouting works continue to be undertaken adjacent to the Cooks River where geotechnical investigations have confirmed elevated groundwater inflows to the tunnel during excavation.
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).
Groundwater	GW16	A <u>Settlement Monitoring Plan</u> would be prepared that would provide details on: <ul style="list-style-type: none"> <li>• Location of monitoring points</li> <li>• Duration of monitoring</li> <li>• Data collection and review</li> <li>• Roles and responsibilities for review of data</li> <li>• Triggers and actions for corrective actions.</li> </ul>	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. 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).
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	Letters of offer for property condition surveys and the property condition surveys themselves are underway, and are being executed progressively in line with the RMS substratum acquisition process. Refer to CoA B58 (Appendix A).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	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.
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	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.
Groundwater	OpG W01	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	Not yet triggered	CDS-JV	The OEMP will be prepared in accordance with this requirement and will be submitted to DPE for approval prior to operation.
Groundwater	OpG W02	The drainage system would be regularly maintained in accordance with the Operational Environmental Management Plan.	Pre-operation	Not yet triggered	CDS-JV	The OEMP will be prepared in accordance with this requirement and will be submitted to DPE for approval prior to operation.
Groundwater	OpG W03	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"> <li>• Ammonium</li> <li>• Phenols</li> <li>• Organophosphorus pesticides</li> <li>• Polychlorinated biphenyls (PCBs).</li> </ul> Discharge water quality criteria would be developed in consultation with the EPA.	Pre-operation	Not yet triggered	CDS-JV WCX M5 AT	The operational phase groundwater monitoring program will be prepared prior to operation in accordance with this requirement.
Groundwater	OpG W04	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.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Groundwater	OpG W05	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	NAH0 1	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006) 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	NAH0 2	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006) addresses this requirement. Heritage sites are identified on heritage maps contained in Appendix B to the CHSP and are also identified on Site Environment Plans.
Non-Aboriginal heritage	NAH0 3	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). The CHSP was provided to the NSW Heritage Division of OEH for consultation on 3/5/16. All potential archaeological finds will be managed and reported in accordance with the CHSP.
Non-Aboriginal heritage	NAH0 4	A <u>construction heritage management plan</u> 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.	Pre-construction	Compliant	CDS-JV	The approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006) was provided to the NSW Heritage Division of OEH, local councils and Sydney Water for consultation on

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		<p>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"> <li>• 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</li> <li>• A list, plan and GIS layer showing the location of identified heritage items</li> <li>• A significance assessment and statement of significance for each item</li> <li>• Detail the mitigation measures identified and when the measures are to be implemented</li> <li>• 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</li> <li>• 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).</li> </ul>				<p>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>
Non-Aboriginal heritage	NAHO 5	<p>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).</p>	Pre-construction Construction	Compliant	CDS-JV	<p>This is addressed in Section 6 of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).</p>
Non-Aboriginal heritage	NAHO 6	<p>In relation to the house at 82 Campbell Street and terrace group at 28-44 Campbell Street the following would be undertaken:</p> <ul style="list-style-type: none"> <li>· 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)</li> <li>· 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).</li> </ul>	Pre-construction Construction	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 and Appendix B of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).</p> <p>Archival recording and salvage reporting is complete for the house/terraces on Campbell Street. Reuse of salvaged items will be in accordance with the Urban Design and Landscape Plan, once approved. Any residual items will be made available to local property owners, in accordance with CoA B35.</p>
Non-Aboriginal heritage	NAHO 7	<p>In relation to Rudders Bond Store, the following would be undertaken:</p> <ul style="list-style-type: none"> <li>· 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</li> <li>· 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</li> </ul>	Design Pre-construction Construction	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 and Appendix B of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).</p> <p>Archival recording has been completed for Rudders Bond Store. OEH have endorsed the salvage and deconstruction approach for this heritage item. Demolition/deconstruction</p>

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		<p>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</p> <ul style="list-style-type: none"> <li>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).</li> </ul>				<p>commenced during the reporting period. Preliminary heritage interpretation work is ongoing with the intention to report as part of the overall Heritage Interpretation Plan for the project.</p>
Non-Aboriginal heritage	NAH08	<p>In relation to the Service Garage at 316 Princes Highway, the following would be undertaken:</p> <ul style="list-style-type: none"> <li>An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to the heritage item</li> <li>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.</li> <li>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).</li> </ul>	Pre-construction	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> <p>A condition survey report has been completed and monitoring equipment has been installed in accordance with the CHSP. Photographic archival recording has also been completed. Monitoring has identified no impacts to date.</p>
Non-Aboriginal heritage	NAH09	<p>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).</p>	Design	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).</p>
Non-Aboriginal heritage	NAH10	<p>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:</p> <ul style="list-style-type: none"> <li>Wolli Creek Culvert</li> <li>St Peters Public School, including interiors</li> <li>Terrace housing, including interiors (I273)</li> <li>Waugh and Josephson industrial buildings, former, showroom, offices and workshops, including interiors</li> <li>Town and Country Hotel, including interiors</li> </ul>	Pre-construction Construction	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 and Appendix B of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).</p> <p>Condition surveys are being undertaken at the listed items prior to commencement of works that may impact on the item.</p>

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
		<ul style="list-style-type: none"> <li>Group of Victorian Filigree and Victorian Italianate terrace houses – Narara, including interiors</li> <li>Terrace group I12</li> <li>Water Board pump house, including Interior and substructure</li> <li>Industrial Building, ‘Frank G Spurway’</li> <li>Former Alexandria Spinning Mills (highly effective).</li> </ul>				
Non-Aboriginal heritage	NAH1 1	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). The existing condition survey report has been completed for the Channel. Vibration monitoring would be implemented where required by the relevant CNVIS for the works. Settlement monitoring would be undertaken where required by the Instrumentation and Monitoring Plan (M5N-GOL-DRT-100-200-GT-1530).
Non-Aboriginal heritage	NAH1 2	<p>The following non-Aboriginal heritage properties would be considered for at property acoustic treatment:</p> <ul style="list-style-type: none"> <li>St Peters Public School, including interiors</li> <li>Terrace group I12 (highly effective).</li> </ul> <p>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).</p>	Design	Compliant	CDS-JV	<p>This is addressed in the mitigation measures contained in Section 6 and Appendix B of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).</p> <p>The final list of properties eligible for acoustic treatment are identified in the CNVIS developed for each area of works. The CNVIS for the Local Roads Upgrades works identifies these properties for acoustic treatments.</p>
Non-Aboriginal heritage	NAH1 3	<p>Management measures for the Goodsell Estate Heritage Conservation Area would include:</p> <ul style="list-style-type: none"> <li>Landscaping, to mitigate the impacts of realigning and widening roads, as well as alterations to the existing stormwater detention basin</li> <li>Surface works would adhere to safe working distances</li> <li>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).</li> </ul>	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). The condition survey process has been implemented for properties within the zone of influence. Safe working distances are specified in the relevant CNVIS. Landscaping will be detailed in the Urban Design and Landscape Plan, which was submitted to DPE for approval on 10/07/17.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Non-Aboriginal heritage	NAH14	<p>Management measures for the Clemton Park Urban Conservation Area would include:</p> <ul style="list-style-type: none"> <li>• Surface works would adhere to safe working distances</li> <li>• An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to relevant structures within the conservation area</li> <li>• Landscaping would provide screening of the Bexley Road South motorway operations complex from the Clemton Park Urban Conservation Area, once established (highly effective).</li> </ul>	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). The condition survey process has been implemented for properties within the zone of influence. Safe working distances are specified in the relevant CNVIS. Landscaping will be detailed in the Urban Design and Landscape Plan, which was submitted to DPE for approval on 10/07/17.
Non-Aboriginal heritage	NAH15	<p>Management measures for the Pallamanna Parade Urban Conservation Area would include:</p> <ul style="list-style-type: none"> <li>• Surface works would adhere to safe working distances</li> <li>• An existing condition survey report and program of monitoring would be undertaken to identify early potential risks to relevant structures within the conservation area</li> <li>• Landscaping would provide screening of the project from the Pallamanna Parade Urban Conservation Area, once established (highly effective).</li> </ul>	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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). The condition survey process has been implemented for properties within the zone of influence. Safe working distances are specified in the relevant CNVIS. Landscaping is detailed in the Urban Design and Landscape Plan, which was submitted to DPE for approval on 10/07/17.
Non-Aboriginal heritage	NAH16	<p>The following management measures would be implemented with respect to Alexandra Canal:</p> <ul style="list-style-type: none"> <li>• Monitoring during works to ensure vibration is not impacting the Alexandra Canal walls</li> <li>• Preparation of an archival recording of the Canal, involving both scale drawings and photography, prior to the removal of sandstone blocks</li> <li>• Numbering of sandstone blocks so that those displaced by the discharge points can be replaced in their previous locations</li> <li>• Stockpiling displaced sandstone blocks for use in repairs of other sections of the Alexandra Canal</li> <li>• Installation of heritage interpretation regarding the Canal in accordance with an interpretation plan (moderately effective)</li> <li>• Any rehabilitation or conservation works in the vicinity of these areas would be determined in consultation with Sydney Water, as the asset owner</li> <li>• Skilled trades people would be used for the proposed works along Alexandra Canal that involve direct interaction with the heritage item.</li> </ul>	Design Construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 and Appendix B of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Non-Aboriginal heritage	NAH17	An interpretation plan would be prepared and implemented for: <ul style="list-style-type: none"> <li>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</li> <li>The St Peters Brickpit geological site, including: <ul style="list-style-type: none"> <li>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</li> <li>Integrate the geological / palaeontological discovery of the Paraclytosaurus davdi</li> <li>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).</li> </ul> </li> </ul>	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).  Development of the heritage interpretation plan is ongoing.
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). Pre-construction archival recording of the site has been undertaken.
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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). Consultation has been undertaken with a palaeontologist in accordance with this requirement.
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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). Landscape treatments will be addressed in the Urban Design and Landscape Plan. The UDLP was submitted to DPE for approval on 10/07/17.
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 approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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"> <li>· Terrace housing (I273)</li> <li>· Southern Cross Hotel (I277)</li> <li>· Water Board pump house (I18) (highly effective).</li> </ul>	Design Construction Post-construction	Compliant	CDS-JV	This is addressed in the mitigation measures contained in Section 6 of the approved Construction Heritage Sub-Plan (CHSP; M5N-ES-PLN-PWD-0006). Urban design and landscaping is addressed in the Urban Design and Landscape Plan. The UDLP was submitted to DPE for approval on 10/07/17.
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	Refer CoA D68(d) (Appendix A)
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). Also refer to CoA D52 (Appendix A).
Biodiversity	B03	Pre-clearance activities will be carried out in accordance with <i>Guide 1 Pre-clearing process</i> of Roads and Maritime's <i>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"> <li>· Hollow-bearing trees</li> <li>· Threatened flora and fauna.</li> </ul>	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). Also refer to CoA D52 (Appendix A).
Biodiversity	B04	Trees will be removed in accordance with <i>Guide 4 – Clearing of Vegetation and Removal of Bushrock</i> of Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011).	Construction	Compliant	CDS-JV	Refer to Section, controls FF12, FF18 and FF19, in the Construction Flora and Fauna Sub-plan (CFFSP; M5N-ES-PLN-PWD-0007). Pre-clearing surveys were undertaken and are included in Appendix F of the CFFSP.
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 (CFFSP; 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). Tree clearance records identify that tree clearing has been undertaken in accordance with the CFFSP.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	The Construction Flora and Fauna Sub-plan (CFFSP; M5N-ES-PLN-PWD-0007; approved 20/07/16) has been prepared in accordance with Guide 2 – Exclusion Zones of Roads and Maritime's Biodiversity Guidelines (RTA, 2011). Tree clearance records identify that exclusion zones have been established prior to clearing in accordance with the CFFSP.
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 6.1 and 6.7 of the Construction Flora and Fauna Sub-plan (CFFSP; 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. Refer to Appendix F (pre-clearance survey report) of the CFFSP for identified habitat trees. Nest boxes have been installed to offset potential habitat loss due to clearing at the Arncliffe Construction Compound. Nest boxes will also be installed to offset potential habitat loss due to clearing for the Local Roads Upgrades.
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.
Biodiversity	B10	The <u>Green and Golden Bell Frog Plan of Management Plan</u> 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 OEHL, and would include: <ul style="list-style-type: none"> <li>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.</li> <li>Management measures relating to the enhancement of existing habitat at the Marsh Street Wetland</li> <li>Supplementary management measures for consideration to mitigate and minimise impacts to the Green and Golden Bell Frog.</li> </ul>	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.  An updated PoM has been prepared and was endorsed by the Environmental Representative on 16/11/2016. The PoM was approved by DP&E on 14/02/2017.  The POM was reviewed and updated during the reporting period and resubmitted to DPE on 28

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
						<p>September 2017. Following subsequent comments from DPE, an updated version (V22) was submitted on 6/04/18 (outside the reporting period).</p> <p>The Habitat Creation and Captive Breeding Plan was approved by DPE on 1 November 2017.</p>
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 and 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.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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) refer to this REMM. The distance from stockpiles to the riparian corridor has been maximised where possible at the Kingsgrove South and Bexley South construction compounds.
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). Weed material is disposed at an appropriately licensed facility. This is monitored through the Waste Tracking Register.
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</i> of Roads and Maritime's <i>Biodiversity Guidelines</i> (RTA, 2011) to reduce the introduction and spread of noxious weed species.	Pre-construction Construction	Compliant	CDS-JV	The Construction Flora and Fauna Sub-plan (CFFSP; M5N-ES-PLN-PWD-0007; approved 20/07/16) has been developed in accordance with the Roads and Maritime Biodiversity Guidelines (RTA 2011). Weed management is being undertaken in accordance with the CFFSP.
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</i> of Roads and Maritime's <i>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	All vehicles plant and equipment brought to site must be inspected to ensure it is clean. A Plant and Equipment Clean Down Declaration must be completed for all plant and equipment brought to site.
Biodiversity	B21	Machinery will be cleaned prior to entering the construction compound sites.	Construction	Compliant	CDS-JV	All vehicles plant and equipment brought to site must be inspected to ensure it is clean. A Plant and Equipment Clean Down Declaration must be completed for all plant and equipment brought to site.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). Visual pathogen inspections were undertaken as part of the pre-clearing inspections. No evidence of pathogens was identified.
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"> <li>Management of weeds</li> <li>Management, maintenance and rehabilitation of riparian land disturbed by the project and riparian areas associated with the discharge of treated water</li> <li>Maintenance of nest boxes</li> </ul>	Operation	Not yet triggered	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).  ER: No evidence for implementation of this REMM has been observed to date
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).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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	<p>This is addressed in Section 4 of the Energy Efficiency and Greenhouse Gas Emissions Strategy (M5N-ES-PLN-PWD-0021).</p> <p>It can be confirmed that 6% of construction energy usage on the project is procured from accredited green power energy suppliers.</p>
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	<p>This is addressed in Section 5 of the Construction Spoil Management Plan (M5N-PM-PLN-PWD-0002). A site spoil tracking register has been developed for each individual site and is updated daily by site teams. This information is collated monthly in the project Spoil Tracking Register &amp; uploaded as a Construction Lot to Incite.</p>
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	<p>This is addressed in Section 5 of the Construction Spoil Management Plan (M5N-PM-PLN-PWD-0002) and the Construction Waste and Resource Sub-plan (CWRSP; M5N-ES-PLN-PWD-0008).</p> <p>Spoil/waste is classified in accordance with the CWRSP by an independent consultant. Options for disposal/recycling are determined based on waste classification. Recycling of material is pursued where reasonable and feasible.</p>
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	<p>This requirement has been addressed in the Road Geometry Design Report, which is now finalised. The tunnel road gradient has been minimised in accordance with RMS design documents and specifications to maximise fuel efficiency and reduce emissions.</p>

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Greenhouse Gas	OpGH G 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	This requirement is being addressed in the Road and Shared Path Lighting designs.
Greenhouse Gas	OpGH G 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; approved 2/08/2016).
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; approved 2/08/2016). There are no works proposed within 50 m of SR-OVRH-1. The tunnel alignment is also greater than 50 m from this feature.
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; approved 2/08/2016).  A pre-construction condition report was completed for this site on 18/10/2016. A subsequent condition report will be completed following tunnelling in this area.
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"> <li>• Ceasing works in the vicinity of the object(s), where there is the potential to directly or indirectly impact on the object(s)</li> <li>• Notifying the construction Environmental Representative and OEH of the discovery</li> <li>• Engaging a qualified archaeologist to determine the nature, extent and scientific significance of the object(s)</li> <li>• Developing management recommendations in consultation with the qualified archaeologist, OEH and RAPs.</li> </ul>	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; approved 2/08/2016). No Aboriginal objects have been identified on the project to date.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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"> <li>Geotechnical coring at each pile location by a geotechnical engineer to obtain intact sediment samples to a depth of around seven metres</li> <li>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).</li> </ul>	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; approved 2/08/2016). The Excavation Director has been present and has inspected core samples during coring in this location.
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"> <li>Ceasing works in the vicinity of the remains, with the potential to directly or indirectly impact on the remains</li> <li>Notifying the construction Environmental Representative, OEH and NSW Police of the discovery</li> <li>Following directions from the NSW Police and / or OEH, as relevant, depending on the nature of the remains and the outcomes of forensic investigations.</li> </ul>	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; approved 2/08/2016).
Resource use and waste minimisation	WM0 1	Construction energy consumption would be reduced through initiatives such as: <ul style="list-style-type: none"> <li>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</li> <li>Local materials procurement where feasible and cost effective to reduce fuel consumption for transport</li> <li>Selection of efficient construction plant and equipment where possible</li> <li>Use of recycled materials where feasible</li> <li>Efficient practices on site (for example, switching off engines when not in use)</li> <li>Use of energy efficient or solar powered lighting for temporary construction facilities</li> <li>Investigating the use of biofuel for construction vehicles.</li> </ul>	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	WM0 2	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	WM0 3	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).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Resource use and waste minimisation	WMO 4	Resource recovery would be applied to the management of construction waste and would include: <ul style="list-style-type: none"> <li>• 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)</li> <li>• Recovery of resources for recycling - recyclable resources (such as metals, plastics and other recyclable materials) generated during construction and demolition</li> <li>• Resources would be segregated for recycling</li> <li>• These materials would then be sent to an appropriate recycling facility for processing.</li> <li>• 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.</li> </ul>	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	WMO 5	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 is continuing to be investigated with individual suppliers  Packaging take back arrangements are included in the Subcontractor Pack supplied during engagement of subcontractors and will be discussed during the projects Sustainable Procurement Workshop in Feb 2018.
Resource use and waste minimisation	WMO 6	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	WMO 7	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).
Resource use and waste minimisation	WMO 8	Wastes would be managed using the waste hierarchy principles of: <ul style="list-style-type: none"> <li>• Avoidance of unnecessary resource consumption to reduce the quantity of waste being generated.</li> <li>• Recover resources for reuse on-site or off-site for the same or similar use, without reprocessing.</li> <li>• Recover resources through recycling and reprocessing so that waste can be processed into a similar non-waste product and reused.</li> <li>• Disposal of residual waste.</li> </ul>	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).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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"> <li>• Work Health and Safety Act 2011</li> <li>• Code of Practice for the Safe Removal of Asbestos 2nd Edition (NOHSC, 2005a).</li> <li>• Code of Practice for the Management and Control of Asbestos in Workplaces (NOHSC, 2005b).</li> <li>• Protection of the Environment Operations (Waste) Regulation 2014 – Part 7</li> <li>• Australian Standard AS2601:1991 Demolition of Structures.</li> </ul>	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). Asbestos management during demolition was reviewed during ER inspections at Local Roads work sites during the Q2 2017 reporting period. Where required, asbestos continues to be removed in accordance with the approved process by a licenced removal contractor.
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). These controls are inspected regularly during weekly environmental inspections, ER inspections and inspections by the project Soil Conservationist.
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	The Spoil Management Plan (M5N-PM-PLN-PWD-0002) was conditionally approved on 23/11/2016. Revision 7 of the Plan was submitted to DP&E on 12/01/2017 to address DP&E requirements. Disposal sites identified are being used. Additional disposal sites are assessed and approved in accordance with the requirements of the plan and sites identified to receive a significant volume of spoil will be included in regular updates to the Plan.
Resource	WM1	Where possible and fit for purpose, spoil would be beneficially reused within the project	Construction	Compliant	CDS-JV	Refer to Section 5.3 of the Construction Waste

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
use and waste minimisation	4	before off-site reuse or disposal options are pursued.				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). Ongoing communication of the Spoil Program between sites is occurring to ensure any potential reuse opportunities are explored prior to disposal off site.
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	All spoil and waste is classified by an independent consultant in accordance with the Construction Waste and Resource Sub-plan (M5N-ES-PLN-PWD-0008) prior to removal offsite. No spoil is taken off-site until classification reports are submitted to the spoil team. The Spoil Management Tracking system ensures spoil classification reports is recorded and reported.
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	This is addressed in the Water Reuse Strategy (M5N-ES-PLN-PWD-0035), approved 3/11/2016. Treated water from the construction water treatment plant is being reused for dust suppression and compaction purposes at the Arncliffe Construction Compound and will be reused at other sites once systems are in place.
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	This is addressed in the Construction Soil and Water Quality Sub-Plan (CSWQSP, M5N-ES-PLN-PWD-0005; approved 15/07/16). All water discharge from site requires a Permit to Dewater (M5N-ES-PER-PWD-0001) to ensure EPL requirements are met.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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). This is also addressed in the Spoil Management Plan (M5N-CN-PLN-PWD-0002).

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Resource use and waste minimisation	OPW M01	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	Not yet triggered	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	OPW M02	Opportunities for reuse of wastewater would be considered in preference to discharge to the local stormwater system.	Operation	Not yet triggered	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	OPW M03	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	Not yet triggered	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

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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
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"> <li>• Details of the hazards and risk associated with construction activities for both surface and subsurface works</li> <li>• Procedures to comply with legislative and industry standard requirements</li> <li>• Contingency plans, as required.</li> </ul>	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; approved 4/08/2016). This is also addressed throughout the sub-plans of the CEMP (Part C).
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). These controls are inspected regularly during weekly environmental inspections and by the ER during weekly ER inspections.
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). These controls are inspected regularly during weekly environmental inspections and by the ER during weekly ER inspections.
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). These controls are inspected regularly during weekly environmental inspections and by the ER during weekly ER inspections.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
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 Dangerous Goods ( <i>Road and Rail Transport</i> ) Regulation 2014 and the Australian Code for the Transport of Dangerous Goods by Road and Rail (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; approved 4/08/2016).
Hazard and risks	HR09	The project would be constructed in 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) and is being addressed through the relevant Construction Area Plans. Consultation has occurred with Sydney Airport during the construction phase to ensure Sydney Airport and CASA requirements are met.
Hazard and risks	OpHR 01	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	Compliant	CDS-JV WCX M5 AT	These requirements are incorporated in the Fire Protection Designs M5N-AJV-DPK-800-700-FR
Hazard and risks	OpHR 02	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	Not yet triggered	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	OpHR 03	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	Not yet triggered	CDS-JV WCX M5 AT	This requirement relates to the operational phase and will be reported on during the pre-operation compliance report.

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Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Hazard and risks	OpHR 04	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	Not yet triggered	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	OpHR 05	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	Not yet triggered	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	OpHR 06	Material Safety Data Sheets would be obtained for dangerous goods and hazardous substances stored onsite prior to their arrival.	Operation	Not yet triggered	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	OpHR 07	The transport of dangerous goods and hazardous substances would be prohibited through the main alignment tunnels and on and off-ramp tunnels.	Operation	Not yet triggered	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	OpHR 08	An Incident Response Plan would be developed and implemented in the event of an accident or incident.	Operation	Not yet triggered	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	OpHR 09	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	Not yet triggered	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	OpHR 10	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	Not yet triggered	CDS-JV WCX M5 AT	This requirement will be addressed in the Electrical HV - HV Power & Distribution System Design
Hazard and risks	OpHR 11	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	Not yet triggered	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	OpHR 12	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	Compliant	CDS-JV WCX M5 AT	This requirement is being addressed in the Road and Shared Path Lighting designs.

# Quarterly Construction Compliance Report: No. 5



Aspect	Ref	Requirement	Timing	Compliance status	Responsibility	Comment / evidence QCCR6
Cumulative impacts	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	Contact has been established with the Sydney Metro project which has recently established a dive site adjacent to this project. Collaboration with Sydney Metro has facilitated a streamlining to resident enquiries.
Cumulative impacts	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	Refer Section 7 of the Community Communications Strategy (M5N-CS-PLN-PWD-0008). Ongoing interaction with developers particularly in the Mascot area.

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# Quarterly Construction Compliance Report: No. 6



## Appendix C: Complaints Register

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# Quarterly Construction Compliance Report: No. 6

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Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC834	All of Project	25/11/2017	9:56 AM	Email	Crown Street	Lack of consultation	Stakeholder is unhappy that he has not received a reply to my request for a copy of the relevant part of the EIS and revised acoustic modelling that relates to my property	CDS JV (Warren P) emailed stakeholder and explained where the information could be found and explained acoustic treatment guidelines	No further action required	Within 2 business days
CC835	Civil East Works	26/11/2017	1:06 AM	Email	Campbell Street	Noise	Complaint received about noise from resident	CDS JV (Virginia B) emailed stakeholder and advised that the owner of the property has been offered acoustic treatment and we are awaiting a response from him.	No further action required	Same business day
CC836	St. Peters Interchange	27/11/2017	6:33 AM	Phone	Canal Road	Pedestrian Access	Stakeholder was unhappy with closed footpath	No response provided	No further action required	Immediate
CC837	SPI Tunnels	27/11/2017	10:42 AM	Phone	Yelverton Street	Vibration	Stakeholder can feel vibration from the tunnel work	CDS JV (Martha H) spoke with stakeholder and advised CDS JV (Yvonne V) will visit on 28/11/2017 - confirmation call needed.  Stakeholder returned call and meeting was set for Thursday 7 December - time to be decided.  CDS JV (Yvonne V & Kaylah M) visited stakeholder residence and discussed concerns.  Stakeholder was happy with the information which has put her mind at ease.  Email provided for updates.	CDS JV (Yvonne V) advised Envio	Immediate
CC838	SPI Tunnels	27/11/2017	11:28 AM	Phone	Yelverton Street	Vibration	Stakeholder can feel vibration from the tunnel work	CDS JV (Yvonne V) spoke with stakeholder and advised the noise he is hearing is ground borne noise from the tunnelling.  Stakeholder is happy to have vibration monitor placed in the front garden of the residence.	No further action required	Immediate
CC839	Kingsgrove Tunnel	28/11/2017	8:46 AM	Phone	Tallawalla Street	Worker behavior	Stakeholder has advised workers are parking in local streets	CDS JV (Diana V) spoke with stakeholder and informed of measures in place to prevent workers parking in residential streets (signage and message on parking reiterated at safety briefings).  CDS JV (Diana V) requested further information on vehicle details, dates of parking occurrence and rego numbers that would enable CDS JV (Diana V) to follow up on the matter with more detail.	Matter was escalated with project team. Parking violation notices will be issued to vehicles believed to be owned by site staff.	Same business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC840	Civil East Works	28/11/2017	11:43 AM	Phone	Not Provided	Alternative Accommodation	Stakeholder called on behalf of the residents of St Peters regarding Alternative Accommodation	<p>CDS JV (Sarah P) spoke with stakeholder who lives in Newtown and has based her comments on what she has seen on social media. She fears this will happen to her in the future.</p> <p>Caller did not know the name of the streets where the night work occurred, date of work and was not affected by the work.</p> <p>CDS JV advised that restrictions are in place for night work and alternative accommodation are being adhered to by the project team.</p> <p>CDS JV advised that work to inform residents, schedule night work and mitigate impacts does happen, often this work does not end up being communicated on social media.</p>	No further action required	Within 5 business days
CC841	Bexley Tunnel	28/11/2017	3:31 PM	Phone	Kingsland Road	Vibration	Stakeholder can feel vibration from Bexley North tunnel work	<p>CDS JV (Diana V) spoke with stakeholder and advised the current location of tunnel excavation at Kingsland Road indicating that work will progress towards the vicinity of the property over the next 1.5 weeks and will then be beneath the dwelling for a week's time before it starts to progress away in the third week.</p> <p>CDS JV (Diana V) explained that directional nature of the ground borne noise and confirmed that it will likely increase over the next 2 or so weeks before the excavation progresses away following that stage.</p> <p>CDS JV (Diana V) informed about the potential impacts from the adjacent tunnel, which is unlikely to be as noticeable as the impacts from the tunnelling closest to his property.</p> <p>Diana V offered temporary noise mitigation provisions (ear plugs) stakeholder declined.</p>	CDS JV (Yvonne V) advised Enviro	Same business day
CC842	Arncliffe Tunnel	28/11/2017	4:10 PM	Phone	Towers Place	Property Damage	Stakeholder advised she has cracks in her walls	<p>CDS JV (Yvonne V) spoke with stakeholder (80+ yrs) who advised cracks have appeared in her property and she would like someone to assess.</p> <p>Stakeholder was advised her request would be passed to the Property Management Team</p>	No further action required	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC84 3	Bexley Tunnel	28/11/2017	9:58 PM	Phone	Vibration	Vibration	Stakeholder can feel vibration from Bexley North tunnel work	<p>CDS JV (Diana V) spoke with stakeholder (minimal English) and discussed concerns around tunnelling noise impacts and translating services.</p> <p>Resident was able to understand and received information.</p> <p>CDS JV (Diana V) advised the current location of tunnel excavation at Kingsland Road indicating that work will progress towards the vicinity of the property in the next one to two weeks and will then start to progress away in the third week.</p> <p>CDS JV (Diana V) explained that the noise will likely increase over the next 2 weeks before the excavation progresses away following that stage.</p> <p>CDS JV (Diana V) offered temporary noise mitigation provisions (ear plugs) which the resident was happy to accept.</p> <p>The resident commented that the noise and vibration was unsettling and causing high blood pressures as well as sleeplessness.</p> <p>CDS JV (Diana V) explained that the nature of the work is short term, suggested she seek medical advice for her ailments and apologised for the inconvenience caused.</p> <p>CDS JV (Diana V) requested the resident get in touch again as the tunnelling progresses for further updates and more communication will be provided in the coming weeks.</p>	CDS JV (Yvonne V) advised Enviro	within 1 business day
CC84 4	Bexley Tunnel	29/11/2017	11:51 AM	Phone	Bellevue Court	Truck noise	Stakeholder can hear trucks braking	<p>CDS JV (Diana V) contacted stakeholder and clarified nature of noise generated from trucks breaking.</p> <p>CDS JV (Diana V) requested resident supply details (rego, reference number) to assist CDS JV in identifying the trucks and investigate the matter further.</p>	CDS JV (Yvonne V) advised Enviro  CDS JV (Diana V) sent text message sent to resident as requested with New M5 email address to forward details.	Next business day
CC84 5	Not Related	29/11/2017	1:19 PM	Email	Flora Street	Vibration	Stakeholder can feel vibration from blasting at the Arncliffe site	CDS JV (Toni F) emailed stakeholder advising there was no blasting undertaken at night.	CDS JV (Yvonne V) advised Enviro (Mikaela M)	Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC84 6	St. Peters Interchange	29/11/2017	1:37 PM	Email	Barwon Park Road	Worker Behaviour	Stakeholder is unhappy that traffic controllers are asking for evidence he lives in Barwon Park	CDS JV (Virginia B) emailed stakeholder and advised she has spoken to the traffic team and provided your feedback regarding their behaviour, in particular making residents feel their privacy was being invaded by confirming their address.	CDS JV (Virginia B) provided feedback to Traffic Control Manager	7 business days
CC84 7	Not Related	30/11/2017	2:38 AM	Phone	Gardeners Road	Noise	Stakeholder wanting to discuss impact of noise coming from works.	CDS JV (Carla P) spoke to stakeholder and advised that night works occurring out front of his property are being conducted by another contractor Wavelength who are operating under their own set of conditions and rules.  Our team do not have any work occurring on Gardeners tonight.  Stakeholder enquired why his previous call about the rectification works on Gardeners Road had not been responded to.  CDS JV (Carla P) advised that the name provided in his enquiry was not his and attempts had been made to contact the person.	CDS JV (Yvonne V) advised Enviro	Immediate
CC84 8	Civil East Works	30/11/2017	3:13 PM	Email	Hutchinson Street	Dust	Stakeholder is unhappy with the level of dust leaving site	CDS JV (Sarah P) emailed the stakeholder the water cart has been in operation in this area throughout the day. A further wetting down of the area was completed at approximately 4pm today.  CDS JV (Sarah P) also advised she will highlight your concerns in relation to dust with the project team to ensure use of the water cart remains vigilant in the dry and windy weather conditions tomorrow.	CDS JV (Sarah P) advised Enviro	Same business day
CC84 9	Bexley Tunnel	30/11/2017	10:55 AM	Phone	Kingsland Road	Noise	Stakeholder advised the noise is continuing to cause sleeplessness and disruption, resident commented that the vibration is causing her pain.	CDS JV (Diana V) spoke with stakeholder and explained that tunnel excavation underneath her property has progressed away however as discussed previously there is another tunnel alignment north of the property that is also being excavated, the impacts experienced could possibly be from this section.  CDS JV (Diana V) requested to know whether the resident has sought medical advice for her physical ailments and advised that further contact will be made on Monday to assess her situation and look at alternative options to provide respite should the impacts continue to affect her.		Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC850	Kingsgrove Tunnel	1/12/2017	3:00 PM	Phone	Armitree Street	Parking	Stakeholder called to advise workers were illegally parked at the end of the Armitree Street cul-de-sac for 2 weeks and confirmed that a construction worker was observed leaving the vehicle.	CDS JV (Diana V) contacted the stakeholder and notified of the outcome and apologised for the inconvenience.	CDS JV (Diana V) notified site supervisor who contacted on site personnel to identify whether the vehicle belongs to a crew member. No response from site crew members, site supervisors continued to track this down.	Immediate
CC851	Kingsgrove Tunnel	4/12/2017	10:00 AM	Face to face	Armitree Street	Parking	Stakeholder spoke with site environmental representatives that to advise workers were illegally parked at the end of the Armitree Street cul-de-sac	CDS JV (Diana V) was able to identify the owner, owner of the vehicle arranged to have the car removed		Immediate
CC852	Civil East Works	4/12/2017	10:13 AM	Email	Princes Highway	Noise	Stakeholder is unhappy with the OoH work causing noise	CDS JV (Sarah P) emailed stakeholder and advised it is always our preference to carry out work during the day. However, due to traffic lane closure restrictions during daytime hours some work has to be carried out at night.  The traffic control set up and lane closures that are required to carry out this work can only be implemented during night shift when the traffic volumes are lower.  For certain works, our approvals do not allow us to implement full traffic control set up until 9pm. This mean that the nosiest work to uncover the underground services takes place from around 10pm.	Notification and schedule of work provided to stakeholder	Immediate
CC853	Arncliffe Tunnel	4/12/2017	1:52 PM	Email	Flora Street	Vibration	Stakeholder can feel vibration from blasting at the Arncliffe site	CDS JV (Yvonne V) emailed stakeholder and advised his complaint has been registered and thanked him for the feedback.	CDS JV (Yvonne V) advised Enviro Team	Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC85 4	SPI Tunnels	5/12/2017	8:10 AM	Email	Princes Highway	Vibration	Stakeholder can feel vibration from tunnel work	<p>CDS JV (Yvonne V) spoke with stakeholder and advised the noise that can be heard is benching in the tunnel which would continue for approx 2 more weeks.</p> <p>CDS JV (Yvonne V) offered to drop ear plugs in the letterbox to see if they assisted with sleep.</p> <p>Stakeholder was grateful for the information and happy to have the ear plugs dropped to them.</p> <p>CDS JV (Yvonne V) advised Pre Condition Survey had not been completed and requested they ask Real Estate Agent to contact us as the owner is living over seas</p>	CDS JV (Yvonne V) advised Enviro Team & dropped ear plugs in letterbox as discussed with stakeholder	Same business day
CC85 5	St. Peters Interchange	6/12/2017	1:15 PM	Phone	Florence Street	Odour	<p>Stakeholder advised she can smell fumes from our compounds located in Campbell and also SPI site</p>	<p>CDS JV (Yvonne V) spoke with stakeholder who advised she is unhappy with the air quality due to fumes from machinery used at the end of her street.</p> <p>Stakeholder also stated she can smell fumes from machinery located at the Princes Highway SPI site.</p> <p>CSD JV (Sarah) called resident to find out if the odour from fumes was still an issue for her and to clarify the details of the issue / complaint. Resident believes that:</p> <ul style="list-style-type: none"> <li>- fumes in the area have increased as there is now no protection from vehicle fumes since buildings on Campbell St have been demolished and trees have been cleared.</li> <li>- Increased traffic in the area is causing pollution</li> <li>- can smell fumes from work locations when wind is blowing towards her property.</li> </ul> <p>Resident requested additional time to review property treatment offer. CDS JV advised that they have no issues with request for additional time to review.</p>	CDS JV (Yvonne V) advised Enviro Team CDS JV (Sarah P) sent follow up email providing links online to UDLP, nearest air quality stations	Immediate
CC85 6	Kingsgrove Tunnel	6/12/2017	Not provided	Website	Woorail Avenue	Construction vehicle movements	Stakeholder is unhappy with truck movements and use of air brakes	<p>CDS JV (Diana V) called stakeholder and left 2 messages with her number for a call back.</p> <p>Upon speaking with the stakeholder CDS JV (Diana V) requested photos or rego numbers of the trucks so action can be taken.</p>	CDS JV (Diana V) raised that matter with the project team members for their attention	

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC857	Civil East Works	6/12/2017	10:41 PM	Email	Bourke Street	Noise	Stakeholder is unhappy with the OoH work causing noise	CDS JV (Carla P) spoke with stakeholder and explained work taking place. CDS JV (Carla P) advised she had attempted to distribute the notification 3 times to the front entrance of the apartment building however was unable to gain access. CDS JV (Carla P) provided an overview of the work		Immediate
CC858	SPI Tunnels	7/12/2017	9:52 AM	Phone	Yelverton Street	Noise	Stakeholder is unhappy with noise from tunnelling work	CDS JV (Yvonne V) advised the noise he can hear is jackhammering in the tunnel for benching works. CDS JV (Yvonne V) left message on voicemail advising benching would continue in that area intermittently for the next two weeks - direct number left for contact	CDS JV (Yvonne V) advised Enviro Team & Tunnel Manager	Immediate
CC859	Arncliffe Tunnel	7/12/2017	5:15 PM	Email	Flora Street	Vibration	Stakeholder can feel vibration from blasting at the Arncliffe site	CDS JV (Toni F) emailed stakeholder and advised that recently there was an update to our environmental protection licence (EPL) which included an extension to the blasting hours apologies you were not updated. The extension now includes the standard construction hours Monday to Friday, 7am – 6pm and Saturday 8am -1pm.	CDS JV (Yvonne V) advised Enviro Team	Next business day
CC860	Not Related	8/12/2017	7:50 PM	Phone	Not Provided	Odour	Stakeholder can smell a strong odour in the air	CDS JV (Carla P) spoke with stakeholder and advised the odour has been investigated and is not coming from the New M5 site - odour specialist visit the site on Sunday as part of our regular monitoring. No odour was detected by their tests at various locations around the site.	CDS JV (Yvonne V) advised Enviro Team	Immediate
CC861	Not Related	9/12/2017	12:35 AM	Phone	Not Provided	Odour	Stakeholder can smell a strong odour in the air	CDS JV (Carla P) spoke with stakeholder and advised the odour has been investigated and is not coming from the New M5 site - odour specialist visit the site on Sunday as part of our regular monitoring. No odour was detected by their tests at various locations around the site.	CDS JV (Yvonne V) advised Enviro Team	Immediate
CC862	Kingsgrove Tunnel	9/12/2017	4:34 PM	Email	Woorail Avenue	Construction vehicle movements	Stakeholder is unhappy with truck movements and use of air brakes	CDS JV (Diana V) advised stakeholder the issues had been addressed with the subcontractors via site management.	CDS JV (Diana V) raised that matter with the project team members for their attention	within 4 business days
CC863	Not Related	9/12/2017	9:54 PM	Phone	Campbell Road	Utilities outage	Stakeholder advised her phone line is not working	After investigation CDS JV (Virginia B) advised stakeholder the issue was not related to New M5 Project.	CDS JV (Virginia B) confirmed with engineers that no work was taking place that had caused the utilities outage.	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC86 4	Civil East Works	10/12/2017	11:35 AM	Email	Church Street	Worker behaviour	Stakeholder states she has been bullied by traffic controllers	CDS JV (Sarah P) emailed stakeholder and explained the reasoning for asking where stakeholder lives.	Link for RMS provided to stakeholder Roads and Maritime Services (RMS) information relating to traffic signs and traffic control can be found here <a href="http://www.rms.nsw.gov.au/roads/safety-rules/road-rules/signs.html">http://www.rms.nsw.gov.au/roads/safety-rules/road-rules/signs.html</a>	7 business days
CC86 5	Kingsgrove Tunnel	11/12/2017	7:10 AM	Email	Woorail Avenue	Construction vehicle movements	Stakeholder is unhappy with truck movements and use of air brakes	CDS JV (Diana V) advised stakeholder the issues had been addressed with the subcontractors via site management.	CDS JV (Diana V) raised that matter with the project team members for their attention	within 4 business days
CC86 6	St. Peters Interchange	11/12/2017	5:55 PM	Phone	Alfred Street	Noise	Stakeholder can hear noise from tunnel works in the area	12/12/2017 CDS JV (Yvonne V) called stakeholder and left message on voicemail with direct number.  11/12/2017 CDS JV (Virginia B) called stakeholder and left message on voicemail with direct number.	CDS JV (Yvonne V) advised Enviro Team	Immediate
CC86 7	St. Peters Interchange	12/12/2017	3:57 PM	Phone	Princes Highway	Parking	Stakeholder is concerned with workers parking at night in the small side street as he has been advised by his garbage collection service they are unable to turn into the street for pick up.	CDS JV (Yvonne V & Toni F) visited business and discussed parking concerns.  Stakeholder indicated vehicles that were parked in the street and may block access for garbage pick up.  Stakeholder was advised we are not able to identify vehicles as work owned and reiterated the measures we take including toolboxing and reminders of parking provided.  Stakeholder advised he may put some notes on the vehicles and if that didnt work he would contact the parking rangers if the vehicles were illegally parked.	CDS JV (Yvonne V & Toni F) visited business and discussed parking concerns.	Same business day
CC86 8	Civil East Works	13/12/2017	8:45 AM	Email	Barwon Park Road	Noise	Stakeholder is unhappy with level of noise from OoH work	CDS JV (Virginia B) offered alternative accommodation which the stakeholder has declined. Alternative offer of noise cancelling headphones was made and accepted	CDS JV (Virginia B) provided stakeholder with noise cancelling headphones.	
CC86 9	Civil East Works	13/12/2017	4:25 PM	Email	Florence Street	Vibration	Stakeholder is unhappy with the amount of vibration he can feel from the work close to his property	CDS JV (Martha H) emailed stakeholder and requested clarification of the location of work that was concerning the stakeholder.	CDS JV Enviro (Ciara M) conducted vibration monitoring and found levels were not excessive. Recommendation that high setting on roller not to be used in future in this location.	Same business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC87 0	Arncliffe Tunnel	15/12/2017	8:52 AM	Email	Flora Street	Noise	Stakeholder could hear loud noises last night around 02:00 - 03:00 am ,it sounded like Jack hammering or similar powered machine	<p>CDS JV (Toni F) emailed stakeholder and advised VBA was working in this area on this night as well as other night work which was undertaken by our project.</p> <p>Stakeholder was also advised we are working in the tunnel shaft closest to his property so this may be the noise he has heard.</p> <p>Stakeholder was advised is approved by our EPL and the activity commenced on the 7 December 2017 with all monitoring results being compliant.</p> <p>Our Environment Team will be undertaking routine compliance monitoring on this activity on a regular basis.</p>	CDS JV (Yvonne V) advised Enviro Team	Within 4 business days
CC87 1	Not Related	15/12/2017	3:26 PM	Phone	Not Provided	Worker behaviour	Stakeholder advised a vehicle (truck & dog) was driving aggressively with excessive speed (approx 30km over the speed limit) on Narellan Road at around 3:20pm.	CDS JV (Yvonne V) advised stakeholder she had spoken with Project Engineer who advised the truck has been inducted into the project but has never worked on the project. Therefore the issue is unrelated	No further action to be taken	Next business day
CC87 2	Civil East Works	16/12/2017	4:07 PM	Phone	Crown Street	Worker behaviour	Stakeholder advised traffic controller is playing loud music			
CC87 3	All of Project	17/12/2017	7:30 PM	Email	Church Street	Acoustic treatment	Stakeholder is unhappy with the time frame for acoustic treatment to report and installation of the treatment.	<p>CDS JV (Martha H) emailed stakeholder and apologised for the frustration.</p> <p>CDS JV (Martha H) the offer regarding the noise treatment for your property has sent you.</p> <p>Stakeholder was advised the items he has requested are not in the offer as we are required to adhere to the criteria in the noise modelling and RMS standards.</p> <p>We would be more than happy to explain this further if you would like to meet with us. There are some exhibits of the various treatments in the Community Information Centre at 27 Burrows Rd St Peters so it would be good if we can meet at the Centre to discuss.</p>	No further action to be taken	Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC87 4	Kingsgrove Tunnel	18/12/2017	7:52 AM	Email	Woorail Avenue	Construction vehicle movements	Stakeholder is unhappy with truck movements.	CDS JV (Diana V) emailed stakeholder and thanked him for providing us with images of the heavy vehicles travelling through Woorail Avenue, Kingsgrove this week.  Stakeholder was advised we will identify the rego numbers against our records to determine responsibility and the appropriate actions.  In light of your feedback, we are focussing our spot checks to areas in Poole Street and Woorail Avenue.	(CDS JV) arranged for Traffic control to be placed at the corner of Poole Road to stop trucks using back streets as short cuts.	Within 2 business days
CC87 5	Kingsgrove Tunnel	18/12/2017	2:16 PM	Phone	Rosemeath Avenue	Damage to nature strip	Stakeholder has complained about damage to his nature strip by cabling left there.	CDS JV (Diana V) called resident and left vm		Within 2 business days
CC87 6	All of Project	19/12/2017	11:13 AM	Email	St Peters Street	Acoustic treatment	Stakeholder is unhappy with the time frame for acoustic treatment to report and installation of the treatment.	CDS JV (Virginia B) emailed stakeholder and apologised for the frustration.  CDS JV (Virginia B) the offer regarding the noise treatment for your property has sent you.  Stakeholder was advised the items he has requested are not in the offer as we are required to adhere to the criteria in the noise modelling and RMS standards.	No futher action to be taken	Same business day
CC87 7	Arncliffe Tunnel	19/12/2017	4:33 PM	Email	Flora Street	Noise	Stakeholder could hear loud noises last night around 02:00 - 03:00 am ,it sounded like Jack hammering or similar powered machine	CDS JV (Yvonne V) emailed stakeholder and acknowledged the receipt of his complaint	CDS JV (Yvonne V) advised Enviro Team	Same business day
CC87 8	Kingsgrove Tunnel	20/12/2017	7:36 AM	Email	Woorail Avenue	Construction vehicle movements	Stakeholder is unhappy with truck movements.			
CC87 9	SPI Tunnels	22/12/2017	11:31 AM	Phone	Mary Street	Vibration	Stakeholder is feeling vibration from the work SPI tunnel.	CDS JV (Martha H) apologised to resident and advised that work was as per CNVMP and that it is not likely here will be damage to property.	No futher action to be taken	Immediate
CC88 0	SPI Tunnels	28/12/2017	8:28 AM	Phone	Roberts Street	Vibration	Stakeholder is feeling vibration from the work SPI tunnel.	CDS JV (Martha H) apologised to resident and advised that work was as per CNVMP and that it is not likely here will be damage to property.	No futher action to be taken	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC88 1	SPI Tunnels	29/12/2017	3:29 PM	Phone	Roberts Street	Vibration	Stakeholder is feeling vibration from the work SPI tunnel.	CDS JV (Martha H) apologised to resident and advised that work was as per CNVMP and that it is not likely here will be damage to property.	No further action to be taken	Immediate
CC88 2	Kingsgrove Tunnel	3/01/2018	8:45 AM	Phone	Glamis Street	Privacy	Stakeholder has ongoing privacy concerns	CDS JV (Diana V) emailed the stakeholder and advised we are investigating possible solutions to resolve this issue.	CDS JV (Diana V) liaised with Petrina over the phone and discussed the option of fencing and mesh to mitigate privacy issues for the family. CDS JV (Diana V) clarified that we previously arranged for the trucks not to park atop the mound overnight and start there engines up of a morning as courtesy to the household.	Same business day
CC88 3	Civil East Works	4/01/2018	5:21 PM	Email	Brown Street	Parking	Stakeholder is unhappy with a work contractor parking in the construction vehicle only space over the Christmas period.	CDS JV (Sarah P) emailed stakeholder and advised she had identified the responsible subcontractor and have contacted their management to outline the expectations of our subcontractors in relation to parking on residential streets.	Subcontractor contacted and vehicle has been removed	within 4 business days
CC88 4	SPI Tunnels	5/01/2018	7:57 AM	Phone	Princes Highway	Noise	Called to report there has been rock hammering noise outside regulated hours and at different times of the day.	CDS JV (Yvonne V) spoke with stakeholder and advised we were working in accordance with our EPL; where by we can hammer underground between 7am - 6pm as this is not considered high impact noise. Stakeholder was accepting of the information.	CDS JV (Yvonne V) advised Enviro	Immediate
CC88 5	Civil East Works	8/01/2018	12:15 PM	Email	Euston Road	Traffic Impacts	No text received (photograph only)	CDS JV (Carla P) emailed the stakeholder and advised of Notification that was dropped along with email update.		Next business day
CC88 6	Kingsgrove Tunnel	8/01/2018	11:32 PM	Phone	Glamis Street	Ongoing Privacy Issue	Stakeholder unhappy as he believes workers are looking into his yard from the work site.	CDS JV (Yvonne V) spoke with stakeholder and advised the mound in the site at the back of his property is used as a pathway for work vehicles. Stakeholder was reminded the project has moved the majority of vehicles away from the area as a gesture of goodwill; however there are times vehicles will need to be there. CDS JV (Yvonne V) advised stakeholder we have begun construction of the temporary fencing and we are waiting on a delivery of shade cloth to complete the fence. Stakeholder advised he may still go to the "governing body" to make a complaint.		Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC887	Civil East Works	9/01/2018	12:31 AM	Email	Euston Road	Dust and Noise	Stakeholder is unhappy with the dust and noise from the site.	CDS JV (Carla P) emailed the stakeholder and requested the stakeholder address as stakeholder may be eligible for alternative accommodation.		Same business day
CC888	Civil East Works	9/01/2018	2:08 AM	Phone	Euston Road	Noise	Stakeholder reporting loud road works occurring on the corner of Euston X Sydney Park Road advising noise is causing house to vibrate.	CDS JV (Carla P) spoke with stakeholder who advised he usually does not hear the night work however this round of work has been louder. CDS JV (Carla P) explained that the property fell on the boundary of the noise modelling for alternative accommodation and we were happy to offer this. The stakeholder preferred the headphones as they have a 3 week old baby.	CDS JV (Carla P) dropped headphones to the stakeholder 10/01/18	Same business day
CC889	SPI Tunnels	9/01/2018	10:32 AM	Phone	Park Road	Vibration	Stakeholder was concerned about vibration from tunnel work	CDS JV (Yvonne V) spoke with stakeholder and explained what she felt was the blast as per the notification and our last conversation. Stakeholder was happy with the explanation.	CDS JV (Yvonne V) advised Enviro	Immediate
CC890	Arncliffe Tunnel	9/01/2018	2:23 PM	Email	Flora Street	Vibration	Stakeholder unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Immediate
CC891	Civil East Works	10/01/2018	5:21 PM	Phone	Burrows Road	Traffic Impacts	Stakeholder unhappy with traffic impacts re Sydney Park round about closure	Meeting was set for 11/01/2018	CDS JV (Carla P) placed traffic controller at property on 12/01/18 to help manage traffic on property. Stakeholder very satisfied with this. Traffic back to normal at roundabout on 15/01/18 so traffic controller not required.	Same business day
CC892	Civil East Works	11/01/2018	7:15 AM	Email	Euston Road	Noise	Stakeholder reporting loud road works occurring on the corner of Euston X Sydney Park Road	CDS JV (Carla P) emailed stakeholder and advised noise was within the expected scope of the work as per the noise modeling completed prior to the work commencing.	CDS JV (Carla P) offered to drop ear plugs	Same business day
CC893	Arncliffe Tunnel	12/01/2018	3:45 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Immediate
CC894	Civil East Works	12/01/2018	12:44 PM	Phone	May Street	Noise	Stakeholder advised there has been excessive machinery noise which started Friday 12/01/2018 03:00 and has continued until now. Has not been able to get any sleep.	CDS JV (Sarah) advised that investigation work with a sucker truck on the opposite of May Street will be carried out from 11am to 3pm today.	CDS JV (Yvonne V) advised Enviro  Stakeholder added to the weekly email update list to be kept up to date on upcoming work in his area.	Immediate
CC895	Arncliffe Tunnel	12/01/2018	3:45 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC89 6	Kingsgrove Tunnel	13/01/2018	1:13 PM	Phone	Rosebank Avenue	Dust	Stakeholder called wanting a water truck to come and water down the site as there is alot of dust.	<p>16/01/2018</p> <p>3:00pm CDS JV (Yvonne V) called - no answer</p> <p>15//01/2018</p> <p>11:50am CDS JV (Yvonne V) called - no answer</p> <p>13/01/2018 CDS JV (Sarah P) spoke to stakeholder who advised that water truck is required to wet site area adjacent to his property at 82 Rosebank Avenue, Kingsgrove.</p> <p>CDS JV (Sarah P) advised site will reopen on Monday 15 January and water cart will attend to area</p>	CDS JV (Yvonne V) advised Enviro	Immediate
CC89 7	Bexley Tunnel	15/01/2018	1:28 PM	Face to face	Girraween Street	Vibration	Stakeholder attended the Kingsgrove office to discuss the vibration he is feeling.	<p>CDS JV (Yvonne V) spoke with stakeholder who was concerned about the vibration.</p> <p>CDS JV (Yvonne V) advised the tunnel has now progressed past his property - stakeholder advised he was shown the GIS map.</p> <p>CDS JV (Yvonne V) advised interactive map link will be sent via email.</p>	CDS JV (Yvonne V) advised Enviro	Immediate
CC89 8	Arncliffe Tunnel	15/01/2018	1:40 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Same business day
CC89 9	Civil East Works	16/01/2018	8:10 AM	Email	Not provided	Road impacts / detours	Stakeholder is unhappy with traffic changes and detours in the area.	CDS JV (Toni F) emailed stakeholder and advised there has been a temporary pedestrian crossing put in place for the safety of all pedestrians using Burrows Road.		13 business days
CC90 0	Not related	16/01/2018	8:14 AM	Phone	Innesdale Road	Vibration	Stakeholder advised that all the floors/doors and windows are vibrating at her property	<p>CDS JV (Martha H) spoke with stakeholder and advised the vibration he is feeling is not related to the New M5 Project.</p> <p>We are aware there is a pile driver working in the area on another building site.</p> <p>Stakeholder happy with the response</p>	CDS JV (Yvonne V) advised Enviro	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC90 1	SPI Tunnels	16/01/2018	11:01 AM	Phone	Mary Street	Vibration	Stakeholder has heard 2x large bangs and would like to know if it is the project with explosions.	<p>16/01/2018</p> <p>1:31PM CDS JV (Yvonne V) spoke with stakeholder and explained the origin of the single but multiple blasts. Stakeholder was advised street meeting will be set in the coming weeks. Stakeholder was happy with the response.</p> <p>11:01 AM CDS JV (Martha H) spoke with the stakeholder who heard a "new noise" and wanted to know what it was. CDS JV (Martha H) explained we were trial blasting in the area around her residence and the Community Relations Lead in the area would call her back to discuss.</p>	CDS JV (Yvonne V) advised Enviro	Immediate
CC90 2	SPI Tunnels	16/01/2018	11:17 AM	Phone	Mary Street	Vibration	Stakeholder has just heard 2 loud explosions and felt her unit shake, she would like to know if this is due to WestConnex work in the area.	<p>16/01/2018</p> <p>2:17pm CDS JV (Yvonne V) spoke with stakeholder and explained the origin of the single but multiple blasts. Stakeholder was advised street meeting will be set in the coming weeks. Stakeholder was happy with the response.</p> <p>11:17am CDS JV (Martha H) spoke with the stakeholder who heard a "new noise" and wanted to know what it was. CDS JV (Martha H) explained we were trial blasting in the area around her residence and the Community Relations Lead in the area would call her back to discuss.</p>	CDS JV (Yvonne V) advised Enviro	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC90 3	Arncliffe Tunnel	16/01/2018	4:42 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with Construction vehicle movements in the area	CDS JV (Toni F) emailed stakeholder and advised his complaint was noted and we have investigated the issue raised and can advise that we have contacted the sub-contractor involved and advised them of the rules. They will be speaking with the driver concerned.		Next business day
CC90 4	Kingsgrove Tunnel	16/01/2018	4:59 PM	Email	Garema Circuit	Parking	Stakeholder reporting an employee has parked in his business parking space.	CDS JV (Yvonne V) emailed stakeholder and advised she had located the employee and his manager has spoken to him and instructed him to ensure he parks in the correct area.  If there is any reoccurrence of our employees parking in your business car park, please do not hesitate to contact me.	CDS JV (Yvonne V) reported issue to employees manager and requested vehicle be removed.	Next business day
CC90 5	Civil East Works	16/01/2018	4:42 PM	Email	May Street	Parking	Stakeholder is angry parking outside of his residence has been removed temporarily	CDS JV (Sarah P) advised resident that designated parking space has been procured behind the 'Town and Country' Hotel for the exclusive use of this resident and his 2 neighbours.		Next business day
CC90 6	Civil East Works	18/01/2018	8:56 AM	Email	Silver Street	Road impacts / detours	Stakeholder is unhappy with signage around closed footpaths.	CDS JV (Sarah P) emailed stakeholder and advised: Approval for additional signage to be installed at the Bishop Street traffic lights to advise of the footpath closure on the northbound lane of Princes Highway near the Campbell Street intersection. The footpath access over the Bedwin Road Bridge is currently being reviewed. I will let you know when I can confirm if and what actions will be taken in this area.		Same business day
CC90 7	Civil East Works	18/01/2018	9:15 AM	Email	Brown Street	Road impacts / detours	Stakeholder is unhappy with parking restrictions in her street.	CDS JV (Sarah P) emailed stakeholder and advised a notification was dropped regarding in the weekend work will finish at 6pm on Friday, 10pm on Saturday and 6pm on Sunday, however the traffic set up will remain in place over the weekend due to the large excavation work happening on the road surface of Campbell Street for the gas relocation work. In error additional parking spaces were taken, this was rectified as soon as it was identified.		Same business day
CC90 8	Civil East Works	18/01/2018	8:44 PM	Phone	Brown Street	Road impacts / detours	Stakeholder is unhappy with parking restrictions in his street.	CDS JV (Martha H) spoke with the stakeholder and advised a notification was dropped regarding in the weekend work will finish at 6pm on Friday, 10pm on Saturday and 6pm on Sunday, however the traffic set up will remain in place over the weekend due to the large excavation work happening on the road surface of Campbell Street for the gas relocation work. In error additional parking spaces were taken, this was rectified as soon as it was identified.		Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC909	Kingsgrove Tunnel	18/01/2018	9:56 PM	Phone	Armitree Street	Sewerage Overflow	Stakeholder advising works in his area affecting sewage lines, all waste sewage coming through backyard and toilets blocked. Caller advises this is the second time this issue has occurred in the past week.	<p>19/01/2018</p> <p>11:15am CSD JV (Yvonne V) door knocked and spoke with resident - left my direct number with them and asked if they could call me directly with any concerns thhe may have.</p> <p>Stakeholder advised they were not directly affected but their concerns were for the elderly neighbors.</p> <p>18/01/2018</p> <p>10:09pm CDS JV (Martha H) organised repair of on site pumps and advised resident that repair was made. Martha also advised resident that further follow up will be provided the next day.</p>		Immediate
CC910	Kingsgrove Tunnel	18/01/2018	10:09 PM	Phone	Armitree Street	Sewerage Overflow	Stakeholder advising works in his area affecting sewage lines, all waste sewage coming through backyard and toilets blocked. Caller advises this is the second time this issue has occurred in the past week.	<p>19/01/2018</p> <p>11:15am CSD JV (Yvonne V) door knocked and spoke with resident - left my direct number with them and asked if they could call me directly with any concerns thhe may have.</p> <p>Stakeholder advised they were not directly affected but their concerns were for the elderly neighbors.</p> <p>18/01/2018</p> <p>10:09pm CDS JV (Martha H) organised repair of on site pumps and advised resident that repair was made. Martha also advised resident that further follow up will be provided the next day.</p>		Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC91 1	Not related	19/01/2018	8:40 AM	Phone	Brown Street	Road impacts / detours	Stakeholder advising of Brown St closure, no traffic management at Conway place to direct detour & slow down traff	CDS JV (Martha H) explained to resident why the changes were put in place for the weekend work and that if the resident did not feel safe using Conway Place to turn into Unwins Bridge Rd, he could access May St via Hutchinson St.  Martha advised that she did not have any control over the speed limit on Unwins Bridge Rd but that she would advise Inner West Council of the resident's request to lower the speed limit.		
CC91 2	Arncliffe Tunnel	19/01/2018	1:50 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Same business day
CC91 3	Kingsgrove Tunnel	19/01/2018	4:20 PM	Email	Rosebank Avenue	Parking	Stakeholder advised WestConnex workers are parking in the local streets	CDS JV (Yvonne V) emailed stakeholder and advised she will make sure the staff are reminded to park in the correct areas; moving forward if you can provide photographs of the vehicles (showing the registration) or the registration of any vehicles you believe may be related to the WestConnex New M5 Project I can address these individuals.		Next business day
CC91 4	Civil East Works	19/01/2018	4:24 PM	Phone	Brown Street	Construction staging and duration	Stakeholder has just found out that a trench is to be dug in front of her address. Refuses to move car.	CDS JV (Martha H) advised resident that there would be no trenching outside of her property. Trenching would be taking place on Campbell St and the traffic cones were to prevent resident parking in order to facilitate extra vehicle movement on the weekends.		Immediate
CC91 5	Civil East Works	19/01/2018	5:53 PM	Phone	Silver Street	Dust	Stakeholder is concerned about the level of dust leaving the site.	CDS JV (Sarah P) emailed the stakeholder and advised, we are working continuously to implement dust mitigation measures to prevent and reduce dust production from our sites. I can see from the photos provided that dust is a continuing issue on Silver Street. I will raise your concerns with the construction team to see if anything additional can be implemented.  Our water carts are in operation across the construction sites and, as advised previously, polymer is being sprayed in areas that we are not currently working in. Street sweepers are also active around the St Peters interchange site, Campbell Street and adjacent streets.  We had a late rain shower today which may be helpful following the dry and hot weather conditions.		Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC91 6	Civil East Works	19/01/2018	10:16 PM	Phone	Brown Street	Road impacts / detours	Stakeholder advised his street has been blocked off with witches hats blocking access to his street and is unable to park at his property, however there is no works going on and would like to know why he cant access his street.	CDS JV (Martha H) listened to resident and advised resident that cones were put in place as per the notification he received to advise that in order to accommodate extra vehicle movements for the weekend works, a small number of parking spaces on Brown St would be required to maintain good vehicle movement.  Resident unhappy with this Traffic Control Plan and advised that the project traffic team were not competent.		Immediate
CC91 7	Civil East Works	20/01/2018	7:56 AM	Email	Campbell Road	Noise	Stakeholder is unhappy that two mechanical diggers and one truck were working directly opposite the Campbell Road terraces between 0700 and 0800hrs, when approved work hours on a Saturday are 0800 to 1300hrs?	CDS JV (Martha H) emailed stakeholder and advised one of our subcontractors who started up work. We will do a further investigation on Monday and report the complaint to EPA.		Same business day
CC91 8	Civil East Works	20/01/2018	12:58 PM	Email	Brown Street	Road impacts / detours	Stakeholder believes the detour set up using Conway Place onto Unwins Bridge Road is dangerous and would like traffic management set up.	CDS JV (Martha H) explained to resident why the changes were put in place for the weekend work and that if the resident did not feel safe using Conway Place to turn into Unwins Bridge Rd, he could access May St via Hutchinson St.  Martha advised that she did not have any control over the speed limit on Unwins Bridge Rd but that she would advise Inner West Council of the resident's request to lower the speed limit.	CDS JV (Martha H) will raise speed limits on Unwins Bridge Road at the next Inner West Council meeting.	Same business day
CC91 9	Civil East Works	22/01/2018	9:04 AM	Email	Crown Street	Property access	Stakeholder advising she is not able to turn into her street which is one way without driving up the wrong way	CDS JV (Martha H) advised resident over the phone that she is able to turn right from Campbell St into Crown St for that day only as Campbell St has been closed at the Princes Hwy and this is the only access into Crown St. Martha advised resident that she had received a letterboxed notification and an email update to advise of this change.		Same business day
CC92 0	Civil East Works	22/01/2018	9:18 AM	Phone	Brown Street	Road impacts / detours	Stakeholder advised Brown Street has been totally closed off caller has had no	CDS JV (Sarah P) advised stakeholder of traffic changes and dates as per community notification delivered on Friday 12 January.		Same business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
							warning			
CC92 1	Civil East Works	22/01/2018	11:54 AM	Email	Brown Street	Road impacts / detours	Stakeholder is unhappy with traffic changes and detours in the area.	CDS JV (Sarah P) emailed stakeholder advising she would follow up with the traffic team to investigate the concern.	Traffic team advised that they have 3 traffic controllers and cannot spare one for this location.  If a forth can be booked for 23/01/18 they will be placed there.  VMS signage is in place.	Same business day
CC92 2	Civil East Works	22/01/2018	12:51 PM	Email	Campbell Road	Noise	Stakeholder unhappy that work appears to be taking place prior to 8am on Saturday.	CDS JV (Martha H) that this compound was used to support the gas relocation work on Campbell St (west) over the weekend.		Same business day
CC92 3	Civil East Works	22/01/2018	1:18 PM	Phone	Princes Highway	Access	Stakeholder advised the tenants at her property have made complaints to her regarding accessing their property.	CDS JV (Toni F) called stakeholder who is the owner of 140 Princes Highway – Pro Cycles as tenant They are also on the Board for the Bishop Street businesses who access through Albert Street.  Issues to be resolved: <ul style="list-style-type: none"><li>• No access for truck deliveries carrying bikes. Bikes are being wheeled in individually from the delivery trucks – major disruption to business</li><li>• Bishop St businesses also requiring truck access to Albert St</li><li>• Require access for trucks as a priority – to be arranged</li></ul> Phoned stakeholder to arrange a meeting onsite with owners and manager of Pro-cycles. Meeting 29.01.18 at 11:30am.  Met with stakeholder onsite project engineer advised we would look at ways in which we could help out the business and would phone them back on 31.01.18.  Phoned stakeholder to advise that we are still looking at a way to help the business have more access to their property. We will contact them next week.  Work has been undertaken and the access to the driveway will be reinstated before the end of February.	Work has been undertaken and the access to the driveway will be reinstated before the end of February.	Next business day

# Quarterly Construction Compliance

## Report: No. 6



Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC92 4	Civil East Works	22/01/2018	4:16 PM	Phone	Brown Street	Road impacts / detours	Stakeholder advised pedestrian access on Brown Street for the works that are occurring this evening is blocked.	CDS JV (Sarah) spoke with resident to advise that pedestrian access will be restored at 5pm.  CDS JV (Sarah) advised pedestrian access will be maintained for the duration of the intersection closure (finish 6pm Thursday 25 Jan)	Work has been undertaken and the access to the driveway will be reinstated before the end of February.	Same business day
CC92 5	Civil East Works	22/01/2018	5:11 PM	Email	Brown Street	Road impacts / detours	Stakeholder advised pedestrian access on Brown Street for the works that are occurring this evening is blocked.	CDS JV (Sarah) emailed stakeholder and advised pedestrian access has now been restored.		Same business day
CC92 6	Not related	22/01/2018	10:25 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Toni F) emailed stakeholder and advised After some investigation we found there was nothing different with our works, however VBA were undertaking some noisy works on Marsh Street – guardrail installation.	CDS JV (Yvonne V) advised Enviro	5 business days
CC92 7	Not related	23/01/2018	11:15 AM	Facebook	Unwins Bridge Road	Noise	Stakeholder advising she can hear noise from tunnelling work	CDS JV (Yvonne V) spoke with stakeholder and advised the noise she is hearing is not related to the New M5 Project; however I would arrange for earplugs to be dropped into her letterbox.	CDS JV (Roos V) dropped earplugs to stakeholders letterbox.	Same business day
CC92 8	Arncliffe Tunnel	23/01/2018	11:47 AM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Same business day
CC92 9	Arncliffe Tunnel	23/01/2018	3:30 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Same business day
CC93 0	Civil East Works	23/01/2018	7:34 PM	Phone	Brown Street	Parking	Stakeholder is unhappy with workers parking in his street	CDS JV (Sarah) emailed stakeholder and advised traffic control need to park in the area during the night shift.		Next business day
CC93 1	Civil East Works	23/01/2018	10:21 PM	Email	Brown Street	Parking	Stakeholder is unhappy with workers parking in his street	CDS JV (Sarah) emailed stakeholder and advised traffic control need to park in the area during the night shift.		Next business day
CC93 2	Arncliffe Tunnel	24/01/2018	5:11 PM	Email	Flora Street	Construction vehicle movements	Stakeholder believes Construction vehicle movements in the area are not following the haulage route	CDS JV (Toni F) emailed stakeholder and advised we have investigated and advised the contracting company involved.		3 business days
CC93 3	Civil East Works	24/01/2018	9:53 PM	Email	Brown Street	Parking	Stakeholder is unhappy with workers parking in his street	CDS JV (Sarah) emailed stakeholder and advised traffic control need to park in the area during the night shift.		Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC93 4	Kingsgrove Tunnel	25/01/2018	9:58 PM	Phone	Armitree Street	Sewerage Overflow	Stakeholder called Community Relations Lead directly as sewer was overflowing.	<p>25/01/2018</p> <p>10:45am CDS JV (Yvonne V &amp; Carel N) met with stakeholder and advised sewerage pump will be decommissioned within 1 mth.</p> <p>A further inspection of his property will be completed after the decommissioning of the pump.</p> <p>CDS JV (Yvonne V) advised stakeholder to call immediately if he has any concerns.</p> <p>24/01/2018</p> <p>9:58 PM CDS JV (Yvonne V) spoke with stakeholder and advised workers would be called immediately and a further investigation would take place.</p>	Investigation underway	Immediate
CC93 5	Civil East Works	25/01/2018	8:47 AM	Email	Campbell Road	Lack of Notification	Stakeholder is unhappy that noisy work is being conducted outside the residence without notification.	<p>CDS JV (Sarah P) emailed the stakeholder and advised the Tobco work outside the Campbell Road terraces is for the installation of low voltage electrical pillars. The pillar installation work is scheduled to be completed today.</p> <p>I spoke to the site team this morning, they have advised that the majority of the saw cutting is complete.</p> <p>Work will continue for the remainder of today to tidy up the conduits that are sticking out of the ground into the green pillars. This is not expected to be high noise.</p> <p>This Tobco work is part of the electrical package which will take the current overhead electrical supply to underground.</p> <p>Further work to take place at the Campbell Road terraces includes the installation of the electrical pits in front gardens to connect to the residents point of supply.</p>		Same business day
CC93 6	Civil East Works	25/01/2018	3:02 PM	Phone	Lawrence Street	Traffic Impacts	Caller unhappy about the letter he has received regarding traffic changes as there is already a lot of traffic going down	CDS JV (Carla P) called stakeholder to explain approved haulage routes and clarify traffic changes		Same business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
							his street. Caller also wanting to discuss the size of West Connex trucks being over the 3 tonne limit.			
CC937	Arncliffe Tunnel	25/01/2018	7:29 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Toni F) emailed stakeholder and advised his complaint was noted.	CDS JV (Roos V L) advised Enviro	Next business day
CC938	Arncliffe Tunnel	29/01/2018	12:57 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Roos V L) emailed stakeholder and advised his complaint was noted.	CDS JV (Roos V L) advised Enviro	Same business day
CC939	Civil East Works	29/01/2018	2:45 PM	Phone	Crown Street	Road impacts / detours	Stakeholder advised of trip hazard on corner of Crown Street and Barwon Park Road as footpath has been dug up and the bitumen has sunk into the ground	CDS JV (Sarah P) advised that repair work was carried out on 30/01/18 to make safe		Within 4 business days
CC940	Civil East Works	30/01/2018	9:51 AM	Phone	George Street	Vibration monitor	Stakeholder is unhappy with vibration monitor that has not been collected from her property; was initially advised that it would be collected the next day	CDSJV (Roos) liaised with Enviro team and advised stakeholder that data from the first night wasn't sufficient and thus it was left over the weekend. Roos apologised to stakeholder for lack of communication. Confirmed with stakeholder that the vibration monitor would be collected on 31/01/18 at around 9 AM.	CDS JV (Roos) and enviro representative collected vibration monitor on 31/01/18 at 9 AM.	Immediate
CC941	SPI Tunnels	30/01/2018	11:18 AM	Email	Roberts Street	Parking	Stakeholder is unhappy with vehicles belonging to WestConnex workers parked in Roberts Street and Robert Lane every day during the week	CDS JV (Martha H) advised resident that she would contact Council to ask rangers to patrol. Martha also advised that she would let the various construction managers know.		Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC94 2	Civil East Works	30/01/2018	11:38 AM	Email	Campbell Road	Light	Stakeholder enquired about work taking place outside construction hours on 27/01/2018 at 22:10 PM	CDS JV (Martha H) emailed stakeholder and advised that our preliminary investigation indicates that it was one of the tunnelling trucks taking some clean spoil from the mound site at Canal Road into the tunnels.  We will continue detailed investigation over the next week and take further measures to ensure that the requirements are adhered to.		Next business day
CC94 3	Arncliffe Tunnel	30/01/2018	1:57 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Roos V L) emailed stakeholder and advised his complaint was noted.	CDS JV (Roos V L) advised Enviro	Same business day
CC94 4	Arncliffe Tunnel	31/01/2018	4:19 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Roos V L) emailed stakeholder and advised his complaint was noted.	CDS JV (Roos V L) advised Enviro	Same business day
CC94 5	Civil East Works	1/02/2018	7:18 AM	Email	Edith Street	Noise	Stakeholder advised she was woken up by very loud drilling and jack hammering noises at 4:30 AM.		CDS JV (Roos V L) advised Enviro	
CC94 6	Civil East Works	1/02/2018	6:50 PM	Email	Princes Highway	Noise	Stakeholder advised she was woken up by jack hammering at 5:30 AM which stopped at 6:30 AM. Stakeholder has footage.	CDS JV (Sarah P) advised the site compound on Campbell Street did not have any workers on site at this time, working hours are 7am to 6pm unless otherwise notified.  The New M5 project tunnelling work is taking place around Mary Street and Alfred Street in St Peters. It not likely that it would be heard or felt 700 meters away.	CDS JV (Roos V L) advised Enviro	Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC94 7	Civil East Works	1/02/2018	7:37 PM	Phone	Roberts Street	Noise	Stakeholder advised construction work has not finished for the day and is unhappy with the noise at 19.20 at night. The noise sounds like heavy machinery being used to pile dirt but caller was unable to confirm that was the case.	CDS JV (Martha H) liaised with Enviro who advised that work was less than 5 decibels and permitted to be undertaken until 8pm on the evening of 1 Feb. Resident asked for monitoring results.  02/02/18 at 3:05 PM  CDS JV (Martha H) emailed stakeholder to advise that the project does not make modelling data publically available. The project works in compliance with the relevant Development Approval, Environmental Protection Licence and Management plans issued and approved for the project.  Martha advised the work last evening was approved, via the project Out of Hours Assessment process, to continue until 8:00pm as modelling showed work to be consistent with the licence requirement below 5dB(A) above background.	CDS JV (Martha H) advised Enviro	Immediate
CC94 8	Civil East Works	1/02/2018	9:58 PM	Email	Princes Highway	Traffic Impacts	Stakeholder unhappy with day time closure of Campbell St westbound (between Princes Highway and Unwins Bridge Rd) on 30.01.18. No notification received.	CDS JV (Sarah P) emailed stakeholder to advise we endeavour to keep the community updated about our upgrade work and associated traffic impacts. On the rare occasion, as in this case, we may miss something. We sincerely apologise for this and look to improve our internal processes moving forward.  Sarah asked if stakeholder would like to be added to the distribution list for email updates.		Next business day
CC94 9	Civil East Works	2/02/2018	11:26 PM	Email	Silver Street	Noise	Stakeholder unhappy about noise on 02/02/2018 that was not notified for.	CDS JV (Martha H) emailed stakeholder to ask for more information re the noise he was hearing and offered to call stakeholder to discuss.		Next business day
CC95 0	Civil East Works	3/02/2018	11:41 AM	Phone	Campbell Road	Traffic Impacts	Stakeholder who was concerned about safety at the intersection and noted that there was no traffic controller present	CDS JV (Roos VL ) told the caller that she would provide this feedback to the site superintendent - No call back provided		Immediate
CC95 1	Arncliffe Tunnel	3/02/2018	12:39 PM	Phone	Innesdale Road	Property Damage	Stakeholder believes recent construction caused a water leak in his house		CDS JV (Yvonne V) referred to Property Team	

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC95 2	St. Peters Interchange	3/02/2018	12:39 PM	Phone	Roberts Street	Noise	Stakeholder is unhappy with the noise levels being emitted during construction and thinks it would exceed the decibel limit.	<p>CDS JV (Roos LV) emailed stakeholder and confirmed the work carried out this morning was piling.</p> <p>Our Enviro team confirmed the piling work stopped at 1:50pm that afternoon. The work had been modelled below 5dB(A) above background and is therefore consistent with the licence requirement and approved via the project Out it Hours Assessment process.</p> <p>A courtesy email was sent to residents yesterday to notify about this work. If you did not receive the email and would like to be added to our distribution list, please let her know.</p>	CDS JV (Roos VL) advised Enviro	Immediate
CC95 3	St. Peters Interchange	3/02/2018	1:30 PM	Email	Hutchinson Street	Noise	Stakeholder is unhappy with the noise levels being emitted during construction.	<p>CDS JV (Martha H) emailed stakeholder and confirmed the work carried out this morning was piling.</p> <p>Our Enviro team confirmed the piling work stopped at 1:50pm that afternoon. The work had been modelled below 5dB(A) above background and is therefore consistent with the licence requirement and approved via the project Out it Hours Assessment process.</p> <p>A courtesy email was sent to residents yesterday to notify about this work. If you did not receive the email and would like to be added to our distribution list, please let her know.</p>		Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC95 4	St. Peters Interchange	3/02/2018	1:37 PM	Email & Phone	Hutchinson Street	Noise	Stakeholder is unhappy with the noise levels being emitted during construction.	<p>CDS JV (Martha H) emailed stakeholder and confirmed the work carried out this morning was piling.</p> <p>Our Enviro team confirmed the piling work stopped at 1:50pm that afternoon. The work had been modelled below 5dB(A) above background and is therefore consistent with the licence requirement and approved via the project Out it Hours Assessment process.</p> <p>A courtesy email was sent to residents yesterday to notify about this work. If you did not receive the email and would like to be added to our distribution list, please let her know. 03/02/2018</p> <p>CDS JV (Roos LV) confirmed that work taking place is piling, which has been modelled below 5dB(A) above background.</p> <p>Call was disconnected, CDS JV (Roos LV) tried to call back on number provided - number invalid.</p> <p>Stakeholder called back and advised phone number provided was made up, does not want WestConnex to have her personal number.</p>		Next business day
CC95 5	Arncliffe Tunnel	5/02/2018	3:24 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Roos V L) emailed stakeholder and advised his complaint was noted.		Same business day
CC95 6	Not related	6/02/2018	4:46 PM	Email	Allambee Crescent	Grassland maintenance	Grassland maintenance next to current M5 not maintained		Referred to SMC (Louise B)	Same business day
CC95 7	Arncliffe Tunnel	6/02/2018	5:05 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting in the area	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Same business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC958	Arncliffe Tunnel	7/02/2018	1:50 AM	Email	Flora Street	Noise	Stakeholder can hear jack hammering noise	<p>CDS JV (Toni F) emailed stakeholder and advised in one area there was repair work being undertaken on machinery, there was no work occurring.</p> <p>There was some hammering being undertaken in one of the permanent shafts which is allowed, as this work has been assessed as having low impact due to the depth of the shaft. Monitoring is undertaken and we have been compliant each time.</p> <p>All the work is underground.</p>	CDS JV (Yvonne V) advised Enviro	
CC959	Civil East Works	8/02/2018	4:46 PM	Email	Maddox Street	Construction vehicle movements	Stakeholder questioning Construction vehicle movements in his local area	Response will be provided to SMC	Information provided to SMC	SMC responding
CC960	Arncliffe Tunnel	8/02/2018	9:09 PM	Email	Innesdale Road	Vibration	Stakeholder advising there is a constant vibration under his property	CDS JV (Toni F) met with stakeholder to discuss the noise. There is no tunnelling currently that is close to the stakeholders property and we are unsure of where the noise is coming from. Advised stakeholder to email when the noise occurs again so the team can see if it from our work.	CDS JV (Yvonne V) advised Enviro	within 2 business days
CC961	Civil East Works	9/02/2018	11:59 AM	Phone	McEvoy Street	Parking		COMPLAINT CHANGED TO FEEDBACK BY CDS JV (Carla P)		
CC962	Civil East Works	9/02/2018	4:18 PM	Email	Church Street	Noise & request for Alternative Accommodation	Stakeholder is unhappy that she was not offered alternative accommodation for upcoming night work.	CDS JV (Sarah P) emailed stakeholder advised due to the equipment being used and the location of your property, alternative accommodation is offered to you.	Alternative accommodation offered	Same business day
CC963	Arncliffe Tunnel	10/02/2018	1:36 AM	Email	Flora Street	Vibration & Noise	Stakeholder is unhappy with blasting in the area and would like to know why the work is scheduled at these times.	<p>CDS JV (Yvonne V) emailed stakeholder and advised that after some investigation we have been unable to work out what vibration you raised the issues about as there was not a lot of work being undertaken at this time.</p> <p>We would like to advise though there are quite a few buildings around the vicinity that have construction work occurring and we have been advised one was undertaking some piling work which could possibly have been the vibration and noise you may have felt and heard.</p>	CDS JV (Yvonne V) advised Enviro	within 2 business days

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC964	St. Peters Interchange	10/02/2018	10:11 AM	Email	Silver Street	Noise	Stakeholder complaint about the noise from the pile driving.	<p>CDS JV (Sarah P) emailed the stakeholder advising may be referring is Rapid Impact Compaction. This is taking place at the T2 mound on Canal Road. The spoil creating this mound needs to be compacted prior to capping. The mound has quite a large surface area which, when completed, will be a combined pedestrian and cycleway.</p> <p>We have been doing this work for some months now but it is more audible as crews are currently working on the top of the mound. The work will continue on and off for some weeks yet.</p> <p>This work is being carried out during construction hours, starting at 8am, with a respite one hour after every three hours of work. CDS JV will continue to monitor this work to ensure that controls continue to be implemented in accordance with the Construction Noise and Vibration Management Plan.</p>		within 2 business days
CC965	St. Peters Interchange	10/02/2018	2:09 PM	Email	Commodore Street	Noise	Stakeholder emailed advising she had received a number of official and unofficial complaints from residents about the noise emanating from piling activities at the WestConnex New M5 St Peters Interchange construction site.	<p>CDS JV (Sarah P) emailed the stakeholder advising may be referring is Rapid Impact Compaction. This is taking place at the T2 mound on Canal Road. The spoil creating this mound needs to be compacted prior to capping. The mound has quite a large surface area which, when completed, will be a combined pedestrian and cycleway.</p> <p>We have been doing this work for some months now but it is more audible as crews are currently working on the top of the mound. The work will continue on and off for some weeks yet.</p> <p>This work is being carried out during construction hours, starting at 8am, with a respite one hour after every three hours of work. CDS JV will continue to monitor this work to ensure that controls continue to be implemented in accordance with the Construction Noise and Vibration Management Plan.</p>		within 4 business days

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC96 6	Civil East Works	13/02/2018	8:38 AM	Email	Brown Street	Inadequate consultation process	Stakeholder advised he was unhappy with the short notice when advising of work in the area.	<p>CDS JV (Sarah P) emailed stakeholder and advised This cancelled work was for the removal of concrete barriers on the southern side of May Street near the intersection of Campbell Street.</p> <p>This work would have involved using crane to move approximately 10 concrete barriers. No concrete saw cutters or jack hammers were scheduled to be used, no work under the road surface was due to take place.</p> <p>This work would not have qualified for any kind of alternative accommodation offer or been deemed high noise.</p>		Same business day
CC96 7	St. Peters Interchange	13/02/2018	2:57 PM	Phone	Edith Street	Noise	Caller advised to hearing loud metal banging each day 9am - 5pm	<p>CDS JV (Toni F) emailed stakeholder and advised the noise to which you may be referring is Rapid Impact Compaction. This is taking place at the T2 mound on Canal Road. The spoil creating this mound needs to be compacted prior to capping. The mound has quite a large surface area which, when completed, will be a combined pedestrian and cycleway.</p> <p>We have been doing this work for some months now but it is more audible as crews are currently working on the top of the mound. The work will continue on and off for some weeks yet.</p> <p>This work is being carried out during construction hours, starting at 8am, with a respite one hour after every three hours of work.</p> <p>CDS JV will continue to monitor this work to ensure that controls continue to be implemented in accordance with the Construction Noise and Vibration Management Plan.</p>		Next business day
CC96 8	St. Peters Interchange	13/02/2018	3:28 PM	Email	Princes Highway	Noise	Stakeholder advised she can hear cutting concrete at night			
CC96 9	Civil East Works	13/02/2018	5:38 PM	Email	Burrows Road	Parking	Stakeholder advised workers are parking in his building complex	CDS JV (Toni F) emailed stakeholder, apologised and requested the stakeholder provide registration numbers of any vehicles parked on the premises that shouldn't be.	Toolboxed at prestart	Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC970	Civil East Works	13/02/2018	10:16 PM	Email	Burrows Road	Pedestrian Safety	Stakeholder is unhappy with access provided to pedestrians where work is occurring.	CDS (Carla P) emailed stakeholder and requested contact number.	Pedestrian detour strategy was amended by team during daytime hours to send people through Sydney Park in order to prevent them taking unsafe option and walking on road. This should provide a fast and clear detour route for stakeholder. Amended 14/02/18.	Same business day
CC971	Arncliffe Tunnel	14/02/2018	1:23 AM	Email	Flora Street	Noise	Stakeholder is unhappy with hammering noise in the area and would like to know why the work is scheduled at these times.	CDS JV (Toni F) emailed stakeholder and advised hammering was being undertaken in one of the permanent shafts which is allowed through our EPL (Environmental Protection Licence), this work has been assessed as having low impact due to the depth of the shaft. Each time monitoring is undertaken we remain compliant	CDS JV (Yvonne V) advised Enviro	Within 5 Business Days
CC972	SPI Tunnels	14/02/2018	11:05 AM	Phone	Princes Highway	Vibration	Stakeholder advised the blast had "knocked him off his feet"	<p>CDS JV (Yvonne V) advised the person he spoke with was the Environmental Advisor who was monitoring the blast.</p> <p>Stakeholder was unhappy when told the blasting will continue with 2 blasts per day Mon - Fri and 1 on Saturday.</p> <p>CDS JV (Yvonne V) advised that Notifications had been dropped to the property and the blasting was not new to the area, stakeholder advised he is usually not at the property during the hours of blasting.</p> <p>Stakeholder was also angry that a Pre Condition Survey has not been completed.</p> <p>CDS JV (Yvonne V) advised numerous letters were sent to the owner and a card dropped to the property advising of the contact number to have the Pre-Condition Survey completed and no response was received.</p>	Referred to Property Management Team	Immediate
CC973	Bexley Tunnel	14/02/2018	12:31 PM	Phone	Bernard Avenue	Vibration	Stakeholder is concerned about the noise from drilling at night - keeping the whole family awake all night	<p>CDS JV (Yvonne V) spoke with stakeholder and advised the noise his family can hear is most likely the roadheader excavating under the corner of his property.</p> <p>CDS JV (Yvonne V) advised roadheader moves approx 30m per week so stakeholder will soon notice a reduction in the noise as the roadheader moves away towards Arncliffe site.</p> <p>CDS JV (Yvonne V) offered earplugs to stakeholder who declined.</p>	CDS JV (Yvonne V) advised Enviro	Immediate

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC97 4	Civil East Works	14/02/2018	2:59 PM	Email	Brown Street	Parking/Worker Behavior	Stakeholder upset that he believes workers are blocking pedestrian when parking	CDS JV (Sarah P) emailed stakeholder and advised his concerns around parking would be toolboxed to ensure compliance.		Next business day
CC97 5	Not related	15/02/2018	2:31 PM	Emails	Brown Street	Asbestos Removal	Complaint received from DPE on behalf of residents who believe asbestos removal is being carried out without consultation	Not related	CDS JV (Yvonne V) advised Enviro	
CC97 6	Bexley Tunnel	15/02/2018	8:44 PM	Phone		Vibration	Stakeholder advised there is loud noise and drilling happening and vibrations going through her house all night	Stakeholder called back and spoke with CDS JV (Yvonne V) who explained the split tunnel under the property.  CDS JV (Yvonne V) advised part of the excavation was already clear of the property with the second excavation taking place over the next week.  Stakeholder was happy for the information and acknowledged the tunnel excavation under the property would be completed in a week.	Ear plugs were offered and declined	Immediate
CC97 7	DPE	16/02/2018	12:07 AM	Emails	Brown Street	Asbestos Removal	Complaint received from DPE on behalf of residents who believe asbestos removal is being carried out without consultation	RMS owned property. Asbestos removal unrelated to the New M5 project RMS have advised DPE (Rob Sherry) of the below  <ul style="list-style-type: none"> <li>• 10 Brown Street is owned by Roads and Maritime</li> <li>• RMS recently replaced the fence between 10 Brown St and 8 Brown St.</li> <li>• It is understood these fence works disturbed the asbestos contaminated material making it newly visible.</li> <li>• Following this notification from the maintenance crew, RMS took the steps necessary to have the material cleaned up / removed</li> <li>• These works are not associated with the New M5 and the property is not required for WestConnex.</li> </ul>	CDS JV (Yvonne V) advised Enviro	Not related
CC97 8	Arncliffe Tunnel	16/02/2018	3:27 PM	Email	Flora Street	Noise	Stakeholder is unhappy with hammering noise in the area and would like to know why the work is scheduled at these times.	CDS JV (Toni F) emailed stakeholder and advised hammering was being undertaken in one of the permanent shafts which is allowed through our EPL (Environmental Protection Licence), this work has been assessed as having low impact due to the depth of the shaft. Each time monitoring is undertaken we remain compliant	CDS JV (Yvonne V) advised Enviro	Within 3 business days

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC979	Arncliffe Tunnel	17/02/2018	12:21 AM	Email	Flora Street	Noise	Stakeholder is unhappy with hammering noise from tunnel work.	CDS JV (Toni F) emailed stakeholder and advised hammering was being undertaken in one of the permanent shafts which is allowed through our EPL (Environmental Protection Licence), this work has been assessed as having low impact due to the depth of the shaft. Each time monitoring is undertaken we remain compliant	CDS JV (Yvonne V) advised Enviro	Within 3 business days
CC980	Not related	19/02/2018	6:16 AM	Phone	Kirrang Street	Noise	Stakeholder advised of hammering and breaking up of concrete from 1:30am this morning until approx 4am	CDS JV (Yvonne V) spoke with stakeholder and advised the only work the New M5 Project was doing was barrier removal within the north compound.  CDS JV (Yvonne V) advised Ventia Boral were doing maintenance work on the M5 in the area and provided the website and phone number for M5 updates.	Ventia Boral details provided	Same business day
CC981	SPI Tunnels	19/02/2018	9:44 AM	Phone	Yelverton Street	Vibration	Stakeholder advising that blasting has started under her home, caller advised that she was told blasting work was complete.	CDS JV (Yvonne V) called stakeholder and advised the blasting is now in the special cross passages in the ramps which are more shallow (20 m) from surface as opposed to the main line (40+m).  Blasting will continue for some weeks.  Stakeholder happy with the response.		Immediate
CC982	Arncliffe Tunnel	19/02/2018	10:47 AM	Email	Flora Street	Noise	Stakeholder is unhappy with blasting from tunnel work.	CDS JV (Toni F) emailed stakeholder and advised we would like to advise that after each blast is undertaken, the vibration data is analysed. This analysis helps to define the blasting pattern, for future blasting.  We are compliant with our Environmental Protection Licence (EPL) and the blast model.  All blasting activities are within the strict vibration requirements set out in the New M5 Conditions of Approval.  We do understand that on some days the blasts are felt more than other days, the vibrations though are usually only felt for up to 10 seconds.  We do take into consideration your complaints and are looking at ways through the vibration data of trying to minimise the impact as best we can.	CDS JV (Yvonne V) advised Enviro	Within 3 business days

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC98 3	Civil East Works	19/02/2018	2:03 PM	Email	Crown Street	Inadequate consultation process	Stakeholder is unhappy that works the community was advised of did not go ahead and there was no notification of the cancellation of work.	CDS JV (Sarah P) emailed stakeholder and advised work did proceed as advised in the notification and requested clarification from stakeholder.		Same business day
CC98 4	Bexley Tunnel	19/02/2018	3:57 PM	Phone	Bernard Avenue	Noise	Stakeholder unhappy with tunneling occurring at night.	CDS JV (Yvonne V) spoke with stakeholder who advised she can hear noise from the tunnelling.  CDS JV (Yvonne V) explained ground borne noise and advised stakeholder the roadheader will shortly be moving away from the street.  Stakeholder would not provide me with the address of her property for me to give greater detail.  CDS JV (Yvonne V) advised Enviro	CDS JV (Yvonne V) advised Enviro	Immediate
CC98 5	Civil East Works	19/02/2018	7:13 PM	Email	Crown Street	Inadequate consultation process	Stakeholder made complaint that the notification that was distributed to residents regarding Crown Street traffic changes was incorrect as the traffic was not reversed yesterday. The stakeholder attempted to obtain information from the traffic controllers who were unable to answer her questions regarding how to access her street; how long the changes were in place etc.	CDS JV (Sarah) called stakeholder to discuss traffic changes. Stakeholder does not believe the traffic changes occurred as per community notification.	Email follow up sent with docs	Next business day
CC98 6	Arncliffe Tunnel	20/02/2018	2:04 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting from tunnel work.	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	Same business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC98 7	Not related	20/02/2018	5:53 PM	Email	Council Street	Noise	Stakeholder is unhappy with noise from work.	CDS JV (Sarah P) emailed stakeholder and advised this work was not related to the New M5 Project. (Metro work)	CDS JV (Yvonne V) advised Enviro	Next business day
CC98 8	Bexley Tunnel	20/02/2018	9:05 AM	Phone	Kooreela Street	Vibration	Stakeholder is unhappy with vibration from tunnel work.	22/02/2018 3:00pm CDS JV (Yvonne V) called - no answer - no vm 21/02/2018 9:05am CDS JV (Yvonne V) called - no answer - no vm	CDS JV (Yvonne V) advised Enviro	Next business day
CC98 9	Arncliffe Tunnel	21/02/2018	3:06 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting from tunnel work.	CDS JV (Toni F) emailed stakeholder and advised that after each blast is undertaken, the vibration data is analysed. This analysis helps to define the blasting pattern, for future blasting.  We are compliant with our Environmental Protection Licence (EPL) and the blast model.  All blasting activities are within the strict vibration requirements set out in the New M5 Conditions of Approval.  We do understand that on some days the blasts are felt more than other days, the vibrations though are usually only felt for up to 10 seconds.  We do take into consideration your complaints and are looking at ways through the vibration data of trying to minimise the impact as best we can.	CDS JV (Yvonne V) advised Enviro	Next business day

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC990	Kingsgrove Tunnel	22/02/2018	6:21 AM	Email	Glamis Street	Dust, Light, Noise	Stakeholder is unhappy with Dust, Light, Noise from site.	<p>CDS JV (Yvonne V) emailed stakeholder and advised Dust</p> <p>Late 2017 the WestConnex NewM5 Project arranged for cleaning to be undertaken at your property; this cleaning was completed on 12 January 2018 whereby a pressure wash of your rear patio and pool surrounds along with cleaning all outside windows, including external flyscreens took place.</p> <p>Additionally a significant amount of work has been done to minimise dust leaving our Kingsgrove site including the following measures:</p> <ul style="list-style-type: none"> <li>• Finely crushed rock laid over haul access road at top of noise mound to help minimise dust emissions</li> <li>• Installation of a state of the art wheel wash unit at exit to spoil shed to help reduce dust emissions</li> <li>• A Privacy / dust screen installed adjacent to water truck refilling area</li> <li>• Use of water carts to minimise dust.</li> </ul> <p>I am also happy to advise that during our last site inspection in January 2018 by the Environmental Representative it was noted in his report "No dust emissions were observed beyond site boundaries".</p> <p>Light Spill After speaking with the Project Engineer responsible for the work on site closest to your residence, I am confident we are doing everything possible to minimise light spill. The measures in place include directing all lighting away from your residence and ensuring lighting towers are not fully elevated which again minimises the extent to which the light spill can occur.</p> <p>The temporary fencing adjacent to water truck refilling area was also installed to break the line of sight to your residence and afford you a greater measure of privacy.</p> <p>Noise When completing night work on site we ensure a number of measures are in place, including:</p> <ul style="list-style-type: none"> <li>• Ensuring noisy work does not occur for more than three consecutive nights</li> <li>• Where possible noisy work will be scheduled prior to midnight</li> <li>• The use of two way radios as communication by site team</li> <li>• Turning off equipment and vehicles when not in use</li> <li>• Noise monitoring is conducted for all work undertaken outside of standard construction hours.</li> </ul> <p>On Site Work</p>		within 2 business days

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
								<p>Surface work at the Kingsgrove site will generally be carried out during standard construction hours between 7am and 6pm Monday to Friday and 8am to 1pm Saturday; however work is permitted on site on Sundays between 8am -6pm provided there is no audible impact to the community.</p> <p>Tunnelling and tunnel support operations at the Kingsgrove site will occur 24 hours per day, seven days per week.</p> <p>Noise monitoring has been conducted, and will continue to be conducted for work undertaken outside of standard construction hours. Monitoring is in keeping with our Construction Noise and Vibration Management Plans.</p>		
CC99 1	Arncliffe Tunnel	22/02/2018	8:07 AM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting from tunnel work.	CDS JV (Yvonne V) emailed stakeholder and advised his complaint was noted.	CDS JV (Yvonne V) advised Enviro	within 2 business days
CC99 2	Arncliffe Tunnel	23/02/2018	4:12 PM	Email	Flora Street	Vibration	Stakeholder is unhappy with blasting from tunnel work.	<p>CDS JV (Toni F) emailed stakeholder and advised, as previously discussed we do take into consideration your complaints and these are sent to the appropriate authorities.</p> <p>However we are compliant with our Environmental Protection Licence (EPL) and the blast model. Which allows us to blast up to two times a day.</p> <p>All blasting activities are within the strict vibration requirements set out in the New M5 Conditions of Approval.</p>	CDS JV (Yvonne V) advised Enviro	Within 4 business days

Complaint number	Type	Date received	Time received	Complaint channel	Location of complaint	Issue	Complaint description	Response	Action taken	Response time
CC99 3	Civil East Works	23/02/2018	4:37 PM	Email	Campbell Road	Inadequate consultation process	Stakeholder does not believe the notification is reflective of the work in the area.	CDS JV (Sarah P) emailed stakeholder and advised she will provide your feedback to the traffic team for their action and review of Traffic Control Plan by all Traffic Control crew on site before each shift.		Same business day
CC99 4	Bexley Tunnel	24/02/2018	1:01 AM	Phone	Campbell Road	Road impacts / detours	Stakeholder advised she was unable determine from the workers on the roads how to bypass the blocked roads to get home	11:06AM CDS JV (Sarah) returned call and left voice mail to return call to discuss 02/03/18 Call not returned		Next business day
CC99 5	Arncliffe Tunnel	24/02/2018	3:28 AM	Email	Flora Street	Noise	Stakeholder is unhappy with hammering from tunnel work.	CDS JV (Toni F) emailed stakeholder and advised hammering is continuing in our permanent shafts which are about 40metres underground, this is allowed through our EPL (Environmental Protection Licence). Monitoring is undertaken on a regular basis during the shifts and the assessment shows that we are compliant.	CDS JV (Yvonne V) advised Enviro	Within 4 business days
CC99 6	Civil East Works	24/02/2018	10:29 AM	Email	Barwon Park Road	Noise	Stakeholder is unhappy with noise from site work.	CDS JV (Sarah P) emailed stakeholder and advised our standard construction hours are Monday to Friday 7am to 6pm and Saturday 8am to 1pm.  Occasionally, we do have to work outside of these hours to complete the work. We try to limit noisy Saturday work where possible.  These concrete girders are extremely large (each one of the 12 concrete girders is 31 metres long and weighs about 50 tonnes)  It was a big operation to transport them from Coffs Harbour and install them in the site compound, unfortunately Saturday work was unavoidable in order to coordinate the deliveries.	CDS JV (Yvonne V) advised Enviro	Next business day



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## Appendix D: 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

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Term / acronym	Definition
Synergy	Synergy is a safety and environmental reporting application and consists of the following modules: <ul style="list-style-type: none"><li>• SHE Management – events including: incidents, near hits, report only, hazards, stakeholder contacts, regulatory visits, drug and alcohol positive tests</li><li>• 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.</li><li>• Compliance – general applicability, typically used to track conditions and aid in reporting</li></ul> Actions – Assign and track actions.
WCX	WestConnex
WCX M5 AT	Project company