

Sydenham to Bankstown Upgrade – Staging Report



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Revision	Revision Date	Status	Brief Reason for Version	Author Company / Position	Approver Company / Position
1	7 May 2019	Final	Compliance with Sydenham to Bankstown Upgrade Condition of Approvals A12 to A15	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest
2	2 Jul 2019	Final	Clarification of allocations in appendices relating to the Community Communications Strategy and CEMP/CEMF requirements	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest
3	29 Jul 2019	Final	Updates to Section 4 in response to the Secretary's comments.	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest
4	16 Oct 2020	Final	Updates to Section 3 and Appendix A, B and C to reflect Southwest Metro Delivery Strategy. Minor administrative updates throughout.	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest
5	5 Aug 2021	Final	Updates to Section 3 and Appendix A, B and C to reflect the addition of Bankstown Early Works scope to the SMC stage	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest
6	13 May 2022	Draft	Updates to Table 1, Section 2.3.1.1, Section 3, Table 5 and Appendix A, B and C to reflect the addition of Bankstown and Additional Corridor Works scope to SMC Stage. Updates to Table 4, Section 3.1.2 to reflect revised construction completion dates.	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest
7	30 June 2023	Final	Updates to Section 3.1.2 construction end dates and Section 3.2.3 Southwest Metro Corridor scope.	SM Environment Manager, City & Southwest	SM Director of Planning, Environment & Sustainability, City & Southwest

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# 1. Definitions and Abbreviations

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

**Table 1: Acronym, Abbreviation and Term Explanations**

Acronym	Definitions
<b>C&amp;SW</b>	City & Southwest
<b>C2S</b>	Chatswood to Sydenham
<b>CBD</b>	Central Business District
<b>CEMF</b>	Construction Environmental Management Framework
<b>CEMP</b>	Construction Environmental Management Plan
<b>CoA(s)</b>	Condition(s) of Approval
<b>Construction</b>	As per the definition provided in the S2B planning approval
<b>CSSI</b>	Critical State Significant Infrastructure
<b>CTMP</b>	Construction Traffic Management Plan
<b>CMTRP</b>	Compliance Monitoring/Tracking & Reporting Program
<b>DCP</b>	Dulwich Hill, Campsie and Punchbowl Station Upgrades
<b>EIS</b>	Environmental Impact Statement
<b>EP&amp;A Act</b>	Environmental Planning and Assessment Act 1979 (NSW)
<b>ER</b>	(Independent) Environmental Representative
<b>HBW</b>	Hurlstone Park, Belmore and Wiley Park Station Upgrades
<b>LW</b>	Line-Wide
<b>Low-Impact Works</b>	Works that are not defined as 'Construction' in accordance with the definition of 'Construction' provided in the S2B planning approval conditions
<b>MCL</b>	Marrickville, Canterbury and Lakemba Station Upgrades
<b>NRT</b>	Northwest Rapid Transit
<b>OTS</b>	Operations, Trains and Systems
<b>QX</b>	Quarter X
<b>REF</b>	Review of Environmental Factors
<b>REMM(s)</b>	Revised Environmental Mitigation Measure(s)
<b>Secretary</b>	The Secretary of the NSW Department of Planning and Environment
<b>S2B</b>	Sydenham to Bankstown Upgrade
<b>SMEW</b>	Southwest Metro Early Works
<b>SM</b>	Sydney Metro
<b>SMC</b>	Southwest Metro Corridor
<b>SMP</b>	Sustainability Management Plan
<b>SSC</b>	Southwest Stations & Corridor
<b>TfNSW</b>	Transport for New South Wales
<b>TSOM</b>	Trains, Systems, Operations and Maintenance



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Acronym	Definitions
<b>WFDIP Plan</b>	Workforce Development and Industry Participation Plan

## 2. Introduction

### 2.1. Purpose of this Report

This report has been prepared and structured to address the Staging Report requirements of Conditions of Approval (CoA) A12 to A15 of the Sydenham to Bankstown Upgrade (S2B) planning approval. Updates to this report will be made as required, particularly following any changes to the delivery strategy (refer to Section 3) and any modification approvals.

The Chatswood to Sydenham Staging Report requirements are addressed in a separate document – the [Chatswood to Sydenham Staging Report](#).

Table 2 cross-references sections in this report that address each applicable CSSI planning approval requirement relating to the Staging Report.

**Table 2: Staging Report Planning Approval Condition Cross-References**

Planning Approval Condition	Condition Requirement(s)	Staging Report Section
S2B – CoA A12	The CSSI [Critical State Significant Infrastructure] may be constructed and operated in stages. Where staged Construction or Operation is proposed, a Staging Report (for either or both Construction and Operation as the case may be) must be prepared and submitted to the Planning Secretary for information. The Staging Report must be submitted to the Planning Secretary no later than one (1) month before the commencement of Construction of the first of the proposed stages of Construction (or if only staged Operation is proposed, one (1) month before the commencement of Operation of the first of the proposed stages of Operation).	The C&SW project is being constructed in stages but not operated in stages. This report has been prepared and Revision 1 was submitted to the Planning Secretary for information in May 2019. The first stage under the S2B approval is SMEW, which commenced construction on the 1 August 2019.
S2B – CoA A13	The Staging Report must:	This report.
S2B – CoA A13(a)	If staged Construction is proposed, set out how the Construction of the whole of the CSSI will be staged, including details of Work and other activities to be carried out in each stage and the general timing of when Construction of each stage will commence and finish	Section 3.
S2B – CoA A13(b)	If staged Operation is proposed, set out how the Operation of the whole of the CSSI will be staged, including details of Work and other activities to be carried out in each stage and the general timing of when Operation of each stage will commence	No staged operation is proposed. Refer to Section 3.3.
S2B – CoA A13(c)	Specify the relevant conditions of approval that apply to each stage and how compliance with conditions will be achieved across and between each of the stages of the CSSI	Appendix A. The majority of the CoAs are fully applicable for each stage, unless specified otherwise within the Appendix A allocations. Furthermore, the Sydney Metro C&SW Compliance Monitoring/Tracking & Reporting Program report outlines how compliance with CoAs will generally be achieved.
S2B – CoA A13(d)	Set out mechanisms for managing any cumulative impacts arising from the proposed staging	Section 3.1.4.

## 2.2. Background

The NSW Government is implementing Sydney's Rail Future (Transport for NSW, 2012a) – a plan to transform and modernise Sydney's rail network so that it can grow with the city's population and meet the needs of customers in the future.

Sydney Metro is a new standalone rail network identified in Sydney's Rail Future. This 21<sup>st</sup> century network will deliver new metro stations and more than 88km of new metro rail for Australia's biggest city – revolutionising the way Sydney travels.

Sydney Metro currently comprises of four projects, all of which have been identified by the NSW Government as priority projects:

- **Northwest** (formerly North West Rail Link) – a 36 kilometre project that commenced operations in May 2019 with a metro train every four minutes in the peak.
- **City & Southwest** – a 30 kilometre metro line extending metro rail from the end of Sydney Metro Northwest at Chatswood, under Sydney Harbour, through new Central Business District (CBD) stations and southwest to Bankstown. The project is due to open in 2024 with ultimate capacity to run a metro train every two minutes in the peak.
- **West** – the next significant railway infrastructure investment proposed to be delivered by the second half of the 2020s. This project would link the CBDs of Parramatta and Sydney and communities along the way.
- **Greater West** – a new railway line to service Greater Western Sydney and the new Western Sydney Airport. The railway is to be operational in 2026 to coincide with commencement of operations of the Western Sydney Airport. The railway will include a station at St Marys to allow customers to interchange with the rest of Sydney's rail network.

Figure 1 provides a map of the four Sydney Metro project alignments.

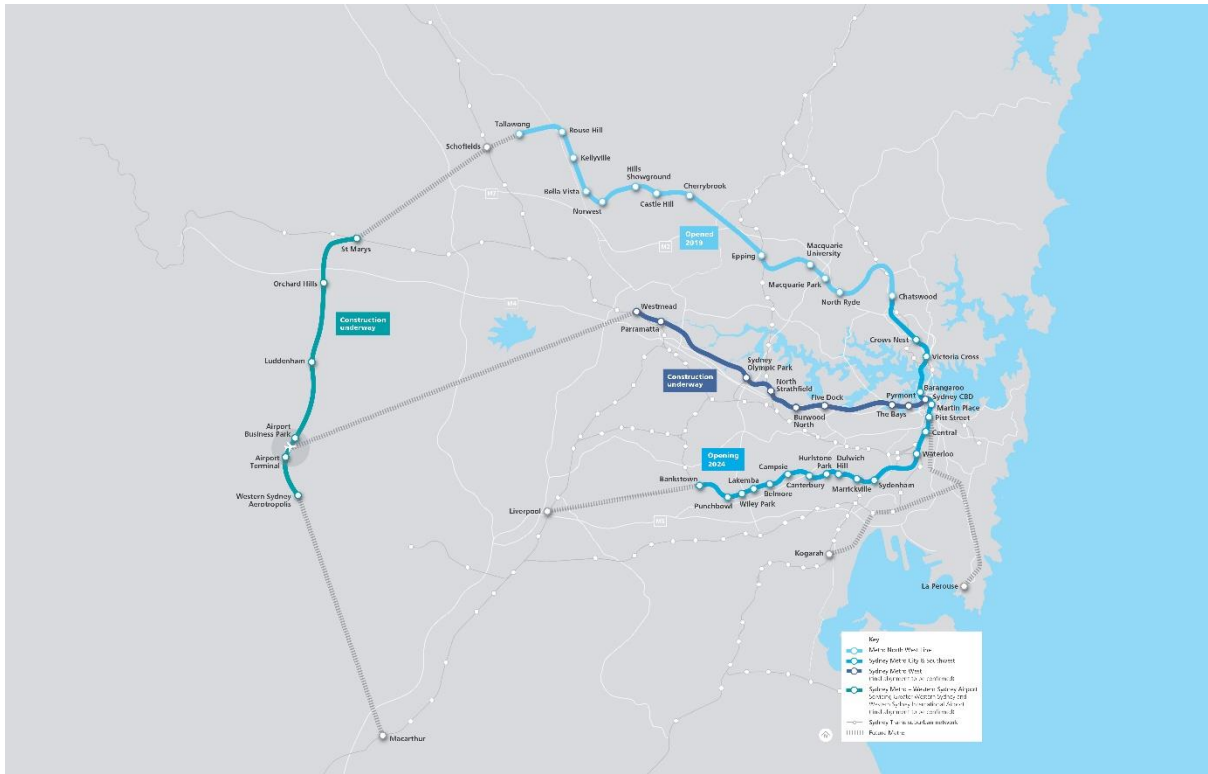


Figure 1: Sydney Metro Project Alignments



## 2.3. City & Southwest Project Planning Approvals

The City & Southwest (C&SW) project has generally been declared as a Critical State Significant Infrastructure (CSSI) project by the NSW Minister for Planning. Works within this declaration require planning approval as a CSSI project under the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act). Works outside the declaration require separate planning approval under the EP&A Act.

### 2.3.1. CSSI Planning Approvals

The C&SW project comprises two core components that are each subject to the CSSI planning approval pathway:

- **Chatswood to Sydenham** – which covers the construction and operation of the Sydney Metro railway between Chatswood and Marrickville. This includes the delivery of 7 new metro stations and 15.5 kilometres of twin railways tunnels from Chatswood, beneath Sydney Harbour and the Sydney CBD, to Marrickville. The Chatswood to Sydenham (C2S) component was subject to the *Chatswood to Sydenham Environmental Impact Statement* (EIS) and was granted planning approval on 9 January 2017.
- **Sydenham to Bankstown** – which covers the construction and operation of the Sydney Metro railway between Marrickville and Bankstown Stations. This includes the upgrading of 13.5 kilometres of the Sydney Trains T3 Bankstown Line between the Marrickville and Bankstown Stations. This component was subject to the *S2B EIS and S2B Submissions and Preferred Infrastructure Report* and was granted planning approval on 12 December 2018.

Over-station developments are subject to separate State Significant Development planning approval processes.

This Staging Report covers the S2B planning approval scope of works. Separate Staging Reports will be prepared to address any Staging Report requirements following determination of any subsequent project planning approvals.

#### 2.3.1.1. Sydenham to Bankstown Upgrade Modifications

To date, there has been one application made to modify the S2B planning approval. A modification report (Modification 1) for the SWM Project was prepared by Sydney Metro (May 2020) and placed on public exhibition from 21 May 2020 to 4 June 2020. A Submissions Report was prepared by Sydney Metro (September 2020) in response to the submissions received during the modification report exhibition period. The SWM Project Modification was determined by the Minister for Planning on 22 October 2020.

### 2.3.2. Exempt Development

The C&SW project is also subject to a small amount of work that is undertaken as 'exempt development' under the EP&A Act. Due diligence and environmental assessments of exempt development works are undertaken by Sydney Metro and its contractors.

An example of exempt development works on the C&SW project is the construction and operation of the White Bay truck marshalling facility.

### 3. Stages

#### 3.1. Overview

Sydney Metro continues to refine the C&SW project delivery strategy following feedback received from stakeholder and industry consultation. The project’s delivery strategy outlines how Sydney Metro will engage with the market to deliver the project in consideration of sequencing, timing and duration, geographic presence, funding, risk, construction methodology and market-related constraints.

The C&SW S2B stages are:

- Southwest Metro Early Works (SMEW);
- Line-Wide (LW);
- Southwest Metro Corridor (SMC) (including Bankstown Station early works) and S2B station works (PC+ Scope);
- Southwest Metro Station Upgrades;
  - Marrickville, Canterbury and Lakemba Station Upgrades (MCL);
  - Dulwich Hill, Campsie and Punchbowl Station Upgrades (DCP); and
  - Hurlstone Park, Belmore and Wiley Park Station Upgrades (HBW).
- Trains, Systems, Operations and Maintenance (TSOM);

Staged operation is not being proposed. The TSOM stage is the only stage of the project with an operational component (i.e. the project comprises of one operational stage only).

##### 3.1.1. Relationships between Planning Approvals and S2B Stages

Table 3 outlines the applicability of the C&SW CSSI planning approvals to each of the S2B stages.

**Table 3: Applicability of Planning Approvals to S2B Stages**

Planning Approval	SMEW	LW	SMC	MCL	DCP	HBW	TSOM
Sydney Metro Trains Facility		✓					✓
Chatswood to Sydenham		✓					✓
Sydenham to Bankstown Upgrade	✓	✓	✓	✓	✓	✓	✓

### 3.1.2. Indicative Timing

The first S2B Stage (SMEW) started construction on the 1 August 2019. Construction will continue on S2B until operations commence in 2024. Table 4 provides an indicative construction timeframe for each S2B Stage.

Table 4: Indicative Timeframes for each S2B Stage (timings subject to change)

Stage	Construction Commencement Date (bold indicates completed dates) <i>(italics indicates indicative future dates that are subject to change)</i>	Construction Completion Date (bold indicates completed dates) <i>(italics indicates indicative future dates that are subject to change)</i>
SMEW	<b>August 2019</b>	<b>December 2021</b>
LW	<b>May 2019</b>	<i>Q1 2024</i>
SMC	<b>March 2021</b>	<i>Q4 2024</i>
MCL	<b>March 2021</b>	<i>Q3 2023</i>
DCP	<b>April 2021</b>	<i>Q3 2023</i>
HBW	<b>April 2021</b>	<i>Q3 2023</i>
TSOM	<i>N/A*</i>	<i>Operational activities only</i>

\* Note - current delivery strategy for the TSOM contract is they will work under the relevant Principal Contractor's environmental management plans until construction completion.

### 3.1.3. Works outside of Stages

Some C&SW works will be undertaken outside of the stages identified or as 'exempt development' in accordance with Section 76(2) of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act).

Where works are undertaken outside of the stages identified but still subject to CSSI planning approvals, these 'Low Impact Activities' will not be defined as 'Construction' in accordance with the definition of 'Construction' provided in the applicable planning approval.

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

- Consideration of relevant regulatory requirements,
- Identification of relevant CoAs and REMMs, and
- Preparation of a Pre-Construction Low Impact Activities Application by the relevant contractor and approval by Sydney Metro to confirm that the works do not represent 'Construction' in accordance with the applicable planning approval. This application must include (as a minimum):
  - A detailed description of the proposed works,
  - An environmental risk assessment (including identification of actual and potential environmental impacts),
  - Identification of mitigation measures to be implemented to address any actual or potential environmental risks and/or impacts (including details on community consultation relevant to the works),
  - An Environmental Control Map (ECM), and
  - Endorsement by the Environmental Representative (ER) as necessary in accordance with the definition of 'Construction' in the applicable planning approval.

### 3.1.4. Cumulative Impacts

No cumulative impacts are expected to be generated as a result of the proposed staging of the project (i.e. there are not expected to be any cumulative impacts generated as a result of delivering the project through multiple stages / contractors, compared to delivering the project through one stage / contractor).

Cumulative impacts which may occur as a result of the project being constructed concurrently with other projects being constructed in nearby areas will be managed through compliance with REMM CI1. Cumulative noise and vibration impacts generated by Out of Hour works will be managed in accordance with the *Sydney Metro City & Southwest Out of Hours Work Strategy / Protocol* and associated *Sydney Metro Out of Hours Work Application Form*.

## 3.2. Construction Stages

### 3.2.1. Southwest Metro Early Works (SMEW)

The SMEW Stage covers:

- Utility and geotechnical investigations,
- Site establishment activities,
- Installation of a combined services route (CSR) trough,
- Embankment stabilisation activities, and
- Installation of some corridor boundary fencing.

The SMEW Stage was awarded to the John Holland Laing O'Rourke Joint Venture in Q4 2018. Low-impact activities commenced and continued until construction commenced 1 August 2019. Construction was completed in Q1 2021.

### 3.2.2. Line-Wide (LW)

The LW Stage covers:

- Bulk power supply between Canterbury and Campsie,
- Station control systems, overhead line and traction supply, and
- Electrical sub-stations.

The LW Stage was awarded to Systems Connect on 21 November 2018. Systems Connect is an unincorporated joint venture between CPB Contractors and UGL. Following the award date, low impact activities commenced and continued until construction commenced 7 May 2019 (on SSI 7400). Construction is expected to be completed in Q1 2024.

### 3.2.3. Southwest Metro Corridor and PC+ Scope(SMC)

The SMC works include the following activities within the Sydenham to Bankstown corridor.

- Installation of services in the CSR trough,
- Utility relocations,
- Installation of segregation and corridor security fencing,
- Construction of retaining walls and associated earthwork activities, and
- Installation of track, rail infrastructure and drainage works.

The SMC Stage was awarded to the John Holland Laing O'Rourke Joint Venture (JHLOR JV) in Q4 2020. Following the award date, low-impact activities were undertaken until construction commenced in Q1 2021. Construction is expected to be completed in Q4 2022.

In Q3 2021, the SMC Stage was expanded to include the Bankstown Station early works scope. Low impact activities associated with the Bankstown Station early works were undertaken in Q3 2021 until construction commenced in Q4 2021.

The early works includes the following activities at or in the vicinity of Bankstown Station:

- Installation of CSR and fencing;
- Installation of drainage infrastructure;
- Vegetation removal;
- Service and geotechnical investigations;
- Construction of a services building
- Construction of a new Sydney Metro 'down' platform to the east of the new at-grade crossing (to be built as part of the BSW Stage)
- Utility relocations;
- Track works;
- Removal of existing Sydney Trains 360 Crossover; and
- Adjustments to existing overhead wiring.

From Q3 2023 and for a period of approximately one year, JHLOR was awarded a smaller package of work (PC+ Scope) in which the SMC project area will be extended to include all station precincts along the S2B alignment from Bankstown Station through to Marrickville Station. This arrangement is primarily logistical in nature and has been proposed to allow other Contractors on the Project to undertake necessary works under a single Principal Contractor.. This will coincide with the gradual cessation of works under MCL, DCP and HBW by HSE JV and Downer Group respectively. During this stage of works, LW and TSOM will undertake their works as detailed in section 3.2.5 and 3.2.2 of this staging report, however JHLOR JV will also undertake additional minor works while occupying the station precincts. Key activities proposed to occur by JHLOR JV at the station precincts will include:

- ULX Rectification works
- Bracket install on station platforms
- Secondary containment works
- Provision of site facilities for TSOM/LW at the station precincts
- Vegetation Management along GST routes
- Provision of support for TSOM/LW – including ramps, access, lighting etc.
- General maintenance and support works – including dewatering of pits, fencing, traffic management, crew support.
- Additional packages of work as instructed by Sydney Metro

### 3.2.4. Southwest Metro Station Upgrades (MCL / DCP / HBW)

The Southwest Metro Station Upgrade Stages (MCL / DCP / HBW) cover the following activities at Marrickville to Punchbowl Stations:

- Re-levelling of platforms,

- Construction and installation of new lifts,
- Installation of platform screen doors,
- Installation of emergency egress ramps,
- Refurbishment / Repurposing of station buildings on platforms and/or at station entrances,
- Signage and wayfinding installation,
- Enhancements to footpaths, paving and lighting in the vicinity of station entrances, and
- Landscaping and installation of street furniture.

The Marrickville, Canterbury and Lakemba (MCL) Stage was awarded to the Haslin and Stephen Edwards Constructions Joint Venture (HSEJV) in Q4 2020. Following the award date, low-impact activities were undertaken until construction commenced in Q1 2021. Construction is expected to be completed in Q3 2023.

The Dulwich Hill, Campsie and Punchbowl (DCP) Stage and the Hurlstone Park, Belmore and Wiley Park (HBW) Stage were awarded to Downer in Q1 2021. Following the award date, low-impact activities were undertaken until construction commenced in Q2 2021. Construction is expected to be completed in Q3 2023.

### 3.2.5. Trains, Systems, Operations and Maintenance (TSOM)

The TSOM stage was awarded to OpCo2 on 4 December 2019 to deliver systems packages relating to –

- control and communications systems,
- radio communications,
- trains and signalling for the Sydney Metro City and the Sydney Metro Southwest sections, and
- platform screen doors and platform edge barriers on the Sydney Metro City section.

The engagement also includes operations and maintenance packages for Sydney Metro City and Sydney Metro Southwest sections.

The OTS2 delivery and operations obligations are passed through to the Core Contractors under the Public Private Partnership (PPP) structure. OpCo2 has engaged the following Core Contractors:

- The Integrator (MTR) to deliver the systems packages relating to control and communication systems, radio communications, trains and signalling for the Sydney Metro City and the Sydney Metro Southwest sections, as well as platform screen doors and platform edge barriers on the Sydney Metro City section on the terms of the Integrator Deed; and
- The O&M Contractor (MTS) to operate and maintain the Sydney Metro system.

The current delivery strategy is for TSOM to work under the relevant Principal Contractors environmental management plans for their site activities. While a condition allocation has been undertaken in this report, in most cases TSOM will be required to provide relevant

information only to the Principal Contractor or Sydney Metro to meet their obligation required by that condition.

### 3.3. Operation Stages

Staged operation is not being proposed.

The TSOM stage is the only stage of the project with an operational component (i.e. the project comprises of only one operational stage).



## 4. Compliance

The applicability of the S2B Conditions of Approval (CoAs) and Revised Environmental Mitigation Measures (REMMs) to each stage of the City & Southwest project have been assessed, allocated and confirmed. These allocations to each stage of the project are tabled in Appendix A and Appendix B respectively:

- Where a CoA or REMM has been determined to be applicable to a stage, it is defined as **Applicable** to that stage. This indicates that the CoA or REMM will be reviewed and assessed for compliance during the stage.
- Where a CoA or REMM is not applicable to the stage, it is defined as **Not Applicable**. This indicates that the CoA or REMM will not be reviewed and assessed for compliance during the stage.
- Where only part of a CoA or REMM is applicable to the stage, it is defined as **Partial**. This indicates that at least an element of the CoA or REMM will be reviewed and assessed for compliance during the stage (to the degree explained in Appendix A or Appendix B).

The CoA and REMM allocation is then further refined for relevance to the current scope of works during the development of the CEMP and sub-plans. Where a CoA or REMM is deemed not to be relevant to the current scope of works, this will be noted in the CEMP and/or relevant sub-plan/s.

In the event of a change to a stage's scope of works, the stage's applicable CEMP and sub-plans will be reviewed and updated as required based on the relevance of the applicable CoA and REMM to the stage. Where a plan is required to be updated, the updated document will be approved by either the ER (in accordance with Condition A26) or the Secretary (in accordance with Condition C2).

### 4.1. Construction Environmental Management Framework

Consistency in environmental management across each stage of the project will be achieved through the implementation of the *Sydney Metro S2B Construction Environmental Management Framework* (CEMF). The CEMF formed part of the *S2B EIS* and provides a linking document to CEMPs and Sustainability Management Plans (produced by contractors). A link to the CEMF contained in the EIS is provided in Appendix C.

The CEMF details the environmental, stakeholder and community management systems and processes to be implemented throughout construction of the project. More specifically, it details:

- The Sydney Metro requirement standards of:
  - CEMPs and sub-plans,
  - Construction Traffic Management Plans (CTMPs) as stand-alone documents (refer to Section 4.1.2),
  - Sustainability Management Plans (SMPs) and sub-plans,
  - Workforce Development and Industry Participation Plans (WFDIPs), and
  - Other supporting documentation for each environmental management category (i.e. noise and vibration, visual amenity, etc.), and

- Minimum requirements for each environmental management category, consistent with the *Sydney Metro Environment and Sustainability Policy* and the *City & Southwest Sustainability Strategy*.

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

#### 4.1.1. Applicability to Stages

C&SW contractors are required to implement the CEMF to a degree that is appropriate to their associated stage's level of environmental risk. This 'appropriateness' has been determined by allocating a level of applicability of each section of the CEMF within each contractor's deed. Allocating applicability of each section of the CEMF allows for effective and efficient management of environmental issues, including an appropriate level of management of each environmental management category listed in the CEMF (refer to Sections 3.2(b) and 3.3(b) of the CEMF).

The allocation of each section of the CEMF to each stage is provided in Appendix C.

Table 5 indicates the applicability of the requirements relating to each CEMF environmental management category to each stage of the project. This includes for each environmental management category (from the highest risk level to the lowest risk level):

- Whether a stand-alone 'CEMP sub-plan', 'CTMP', 'SMP sub-plan' or 'WFDIP Plan' will be prepared.
- Whether the category risks will be addressed in the main CEMP/SMP document in the form of a procedure ('CEMP-P' or 'SMP-P'),
- Whether the category risks will be addressed in the main CEMP/SMP document only ('CEMP' or 'SMP'), or
- Whether the category risks are not applicable to the stage ('N/A').

This assessment was based on each stage's scope of work, relevant CoA and REMM requirements and the relevant environmental risks and impacts identified in the S2B EIS.

Table 5: CEMF Applicability to each Stage

CEMF Environmental Management Category	SMEW	LW	SMC	MCL	DCP	HBW	TSOM
<b>Waste / Spoil / Recycling *</b>	CEMP / SMP	CEMP-P	SMP sub-plan	CEMP-P	CEMP-P	CEMP-P	N/A
<b>Groundwater</b>	CEMP	CEMP-P	CEMP	CEMP	CEMP	CEMP	N/A
<b>Traffic</b>	CoA E47 CTMP	CoA E47 CTMP	CoA E47 CTMP	CoA E47 CTMP	CoA E47 CTMP	CoA E47 CTMP	N/A
<b>Noise &amp; Vibration</b>	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	N/A
<b>Heritage</b>	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	N/A
<b>Flora &amp; Fauna / Biodiversity</b>	CEMP-P	CEMP-P	CEMP-P	CEMP-P	CEMP-P	CEMP-P	N/A
<b>Visual Amenity</b>	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	N/A
<b>Carbon &amp; Energy</b>	SMP sub-plan	SMP sub-plan	SMP sub-plan	SMP	SMP	SMP	SMP sub-plan
<b>Materials</b>	SMP sub-plan	SMP sub-plan	SMP sub-plan	SMP sub-plan	SMP sub-plan	SMP sub-plan	SMP sub-plan
<b>Soil &amp; Water</b>	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	CEMP sub-plan	N/A
<b>Air Quality</b>	CEMP-P	CEMP-P	CEMP-P	CEMP-P	CEMP-P	CEMP-P	N/A
<b>Workforce Development</b>	WFDIP Plan	WFDIP Plan	WFDIP Plan	WFDIP Plan	WFDIP Plan	WFDIP Plan	N/A

\* Refer to Section 4.1.2.

#### 4.1.2. CEMP, CTMP, SMP and WFDIP Plan and Sub-Plan Structures

For the purposes of ensuring compliance with the planning approval conditions and structural consistency between the CEMF requirements and the CEMPs, CTMPs, SMPs, WFDIP Plans and associated sub-plans, the following structure is applied to all City & Southwest CEMPs, CTMPs, SMPs and WFDIP Plans:

- **Construction Environmental Management Plan**, which may comprise of:
  - Waste / Spoil / Recycling Management Sub-Plan \*
  - Groundwater Management Sub-Plan
  - Noise and Vibration Management Sub-Plan
  - Heritage Management Sub-Plan
  - Flora and Fauna / Biodiversity Management Sub-Plan
  - Visual Amenity Management Sub-Plan
  - Soil and Water Management Sub-Plan
  - Air Quality Management Sub-Plan
- **Construction Traffic Management Plan** as a stand-alone document:
  - In accordance with CoA C3 and CoA E47, CTMPs are considered stand-alone documents and not sub-plans to the CEMP (nor the SMP).
- **Sustainability Management Plan**, which may comprise of:
  - Carbon and Energy Management Sub-Plan
  - Materials Management Sub-Plan
  - Waste / Spoil / Recycling Management Sub-Plan \*
- **Workforce Development and Industry Participation Plan**, which may comprise of:
  - Aboriginal Participation Sub-Plan

\* In accordance with the [C2S Staging Report](#), Waste (and Recycling) Management Sub-plans are a sub-plan to the SMP. Since the first version of the C2S Staging Report was finalised in March 2017, Sydney Metro's contractors that work under the C2S planning approval have drafted their CEMP and sub-plans in accordance with this structure. Under the S2B CoA C3(c) however, a Waste & Spoil Management Sub-plan is a sub-plan to the CEMP. Therefore, Sydney Metro has allowed flexibility for contractors to address spoil, waste and recycling matters under the CEMP, SMP or associated sub-plans, in accordance with the applicable planning approval conditions and staging report.

##### 4.1.2.1. Reviews, Endorsements and Approvals

The plans referenced in Section 4.1.2 are subject to multiple reviews, endorsements and approvals in accordance with Table 6. The requirement for these plans to receive these reviews, endorsements and external approvals as indicated in Table 6 is to ensure consistency with the CEMF and CoAs C1, C2, C3, C7 and E47.

Table 6: Reviews, Endorsements and Approvals of Plans

Plan	Contractor's Internal Review & Approval	Sydney Metro Review	Government Agency / Stakeholder Consultation	ER Review & Endorsement prior to Implementation	ER Review & Endorsement prior to Secretary Submission	RMS Review & Approval	Secretary Review & Approval	Approval Authority for Minor/Administrative Updates
<b>Construction Environment Management Plan</b>	✓	✓	●		✓		✓	ER
Waste / Spoil / Recycling Management Sub-Plan *	✓	✓	✓		✓		✓	ER
Groundwater Management Sub-Plan	✓	✓	●	✓				ER
Noise & Vibration Management Sub-Plan	✓	✓	✓		✓		✓	ER
Heritage Management Sub-Plan	✓	✓	✓		✓		✓	ER
Flora & Fauna / Biodiversity Management Sub-Plan	✓	✓	●	✓				ER
Visual Amenity Management Sub-Plan	✓	✓	●	✓				ER
Soil & Water Management Sub-Plan	✓	✓	✓		✓		✓	ER
Air Quality Management Sub-Plan	✓	✓	●	✓				ER
<b>Construction Traffic Management Plan</b>	✓	✓	✓		●	N/A	Submit 1 <sup>st</sup> version to Secretary for info only	RMS
<b>Sustainability Management Plan</b>	✓	✓	●	●				N/A
Carbon & Energy Management Sub-Plan	✓	✓	●	●				N/A
Materials Management Sub-Plan	✓	✓	●	●				N/A
<b>Workforce Development &amp; Industry Participation Plan</b>	✓	✓	●	●				N/A
Aboriginal Participation Sub-Plan	✓	✓	●	●				N/A

● At the discretion of Sydney Metro (i.e. not strictly a project requirement).

\* Refer to Section 4.1.2.

## 4.2. Tracking

The tracking of compliance will be implemented in accordance with the Sydney Metro C&SW Compliance Monitoring/Tracking & Reporting Program (CMTRP) report. This report outlines various activities that are undertaken across the stages of the project in order to monitor compliance with the requirements of the project's CSSI planning approval CoAs, REMMs and other legal requirements.

Implementation of the CMTRP includes a quarterly assessment of each planning approval requirement (CoAs and REMMs) that is relevant across each stage of the project. This assessment includes demonstration of how the requirement has been complied with and the status of its compliance (e.g. Compliant or Non-Compliant). These assessments include CoA A1, which requires compliance with the EIS, SPIR, all CSSI modification approvals and the CoAs.

### 4.2.1. Surveillance and Auditing

The CEMF requires contractors to undertake regular onsite environmental inspections to confirm the adequacy of all environmental mitigation measures. Furthermore, onsite environmental inspections are regularly undertaken and led by the Environmental Representative across all stages of the project and involve key staff from the contractor and Sydney Metro representatives. Environmental Representative led inspections provide professional independent surveillance, guidance and advice on environmental management activities onsite.

Environmental inspections are supported by a range of other activities, including:

- Environmental performance reporting,
- Environmental risk assessment reviews,
- Regular environment meetings between Sydney Metro and the contractors, in conjunctions with the Environmental representative,
- Quarterly compliance reviews by the contractors and the Environmental Representatives,
- Environmental incident and non-compliance reporting,
- Environmental management documentation reviews and endorsements, and
- Internal, Sydney Metro or independent environmental auditing.

## Appendix A – Applicability of S2B CoAs to each Stage

This table has been based on the latest version of the consolidated Sydenham to Bankstown Upgrade Conditions of Approval as issued by the NSW Minister for Planning on 12 December 2018.

CoA Topic	CoA	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*	
<b>General</b>	<b>A1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A2</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A3</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A4</b>	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Partial – With regard to CoA A4(d), to the extent of construction activities only.	Applicable
	<b>A5</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A8</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A9</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A10</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A11</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Staging</b>	<b>A12</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A13</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A14</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A15</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Ancillary Facilities</b>	<b>A16</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A17</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Ancillary Facilities – Use of Ancillary Facilities</b>	<b>A18</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Ancillary Facilities – Minor Ancillary Facilities</b>	<b>A19</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Ancillary Facilities – Boundary Screening</b>	<b>A20</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A21</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Environment Representative</b>	<b>A22</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A23</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A24</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A25</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A26</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A27</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A28</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Compliance Monitoring &amp; Reporting Program</b>	<b>A29</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>A30</b>	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Applicable – SM will produce one pre-construction report and update Appendix A for each stage when required	Partial – To the extent of producing a pre-operational compliance report only.
	<b>A31</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable

CoA Topic	CoA	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
	<b>A32</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Auditing</b>	<b>A33</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>A34</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>A35</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>A36</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Incident Notification &amp; Reporting</b>	<b>A37</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>A37</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Community Information, Consultation &amp; Involvement – Communication Strategy</b>	<b>B1</b>	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.
	<b>B2</b>	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.
	<b>B3</b>	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.
	<b>B4</b>	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.	Applicable – In the form of the SM C&SW Overarching Community Communication Strategy.
<b>Complaints Management System</b>	<b>B5</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B8</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B9</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B10</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B11</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B12</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>B13</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Provision of Electronic Information</b>	<b>B14</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Construction Environmental Management Plan</b>	<b>C1</b>	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage.	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage.	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage.	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage.	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage.	Applicable – Refer to Appendix C for applicable CEMF requirements for each stage.	Not Applicable
	<b>C2</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>C3</b>	Partial – C3(a), (b) and (d) will be complied with fully (to address key risks). Risks associated with the remaining aspects of this condition will be addressed in accordance with Table 5.	Partial – C3(a), (b) and (d) will be complied with fully (to address key risks). Risks associated with the remaining aspects of this condition will be addressed in accordance with Table 5.	Partial – C3(a), (b) and (d) will be complied with fully (to address key risks). Risks associated with the remaining aspects of this condition will be addressed in accordance with Table 5.	Partial – C3(a), (b) and (d) will be complied with fully (to address key risks). Risks associated with the remaining aspects of this condition will be addressed in accordance with Table 5.	Partial – C3(a), (b) and (d) will be complied with fully (to address key risks). Risks associated with the remaining aspects of this condition will be addressed in accordance with Table 5.	Partial – C3(a), (b) and (d) will be complied with fully (to address key risks). Risks associated with the remaining aspects of this condition will be addressed in accordance with Table 5.	Not Applicable
	<b>C4</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable



CoA Topic	CoA	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*	
	C5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
	C6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
	C7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
<b>Construction Monitoring Programs</b>	C8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
	C9	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
	C10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
	C11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
	C12	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Applicable. Monitoring Programs may be staged and will be submitted in advance of the respective packages of construction works.	Not Applicable
	C13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	C14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
C15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	
<b>Operational Environmental Management</b>	D1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	
	D2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	
	D3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	
	D4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	
	D5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	
<b>Suburban &amp; Inter-Urban Rail</b>	E1	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Applicable	
<b>Air Quality</b>	E2	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of operational activities only.	
<b>Biodiversity – Biodiversity Offsetting</b>	E3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Tree Removal &amp; Replacement</b>	E4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E6	Partial – Any trees removed as part of this stage will be replaced as part of subsequent stage(s).	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E7	Partial – Any trees removed as part of this stage will be replaced as part of subsequent stage(s).	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Flooding</b>	E8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E9	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Heritage</b>	E10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E13	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	E14	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	

CoA Topic	CoA	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
	E15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E16	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E17	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of operational maintenance activities only.
Noise & Vibration – Land Use Survey	E18	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Work Hours	E19	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Variation to Work Hours	E20	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E21	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Out-of-Hours Work Scheduling & Respite	E22	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E23	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Highly Noise Intensive Work	E24	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Out-of-Hours Work Protocol – Work not subject to an EPL	E25	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Out-of-Hours Work – Utility Coordination & Respite	E26	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Construction Noise & Vibration – General	E27	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E28	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E29	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E30	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Noise & Vibration – Noise Mitigation – Operational Noise Mitigation Measures	E31	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E32	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E33	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E34	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
Socio-Economic, Land Use & Property	E35	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E36	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Socio-Economic, Land Use & Property – Business Management Plan	E37	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Soils	E38	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Soils – Contaminated Sites	E39	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E40	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Materials Storage	E41	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Sustainability	E42	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E43	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Applicable
	E44	Partial – To the extent of design development and construction activities only.	Partial – To the extent of design development and construction activities only.	Partial – To the extent of design development and construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Applicable
	E45	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
Traffic & Transport – Traffic & Transport Liaison Group	E46	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E47	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

CoA Topic	CoA	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
	E48	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E49	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E50	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E51	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Traffic &amp; Transport – Pedestrian &amp; Cyclist Access</b>	E52	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E53	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Urban Design &amp; Visual Amenity – Lighting &amp; Security</b>	E54	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of operational activities only
<b>Urban Design &amp; Visual Amenity – Design Review Panel</b>	E55	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E56	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E57	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E58	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	E59	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	E60	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable
	E61	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	E62	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable
	E63	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	E64	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	E65	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	E66	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
E67	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	
<b>Urban Design &amp; Visual Amenity – Operational Maintenance</b>	E68	Not Applicable	Partial – To the extent of construction activities only	Partial – To the extent of construction activities only	Partial – To the extent of construction activities only	Partial – To the extent of construction activities only	Partial – To the extent of construction activities only	Partial – To the extent of operational activities only
<b>Utilities Management</b>	E69	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E70	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	E71	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Utilities Management – Utility Coordination Manager</b>	E72	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Waste</b>	E73	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E74	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E75	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	E76	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

\* Denotes –TSOM will work under a Principal Contractor in accordance with Section 3.2.5 of this Report.

## Appendix B – Applicability of S2B REMMs to each Stage

This table has been based on the latest version of the Revised Environmental Mitigation Measures taken from Appendix C of the Sydenham to Bankstown Upgrade Submissions Report.

REMM Topic	REMM	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
<b>Traffic, Transport &amp; Access (Design / Pre-Construction)</b>	TC1	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TC2	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TC3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TC4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TC5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TC6	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TC7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TO1	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TO2	Not Applicable	Not Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
<b>Traffic, Transport &amp; Access (Construction)</b>	TC8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC9	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC10	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC16	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC17	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC18	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC19	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC20	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	TC21	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
TC22	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Traffic, Transport &amp; Access (Operation)</b>	TO3	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	TO4	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	TO5	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Noise &amp; Vibration (Design / Pre-Construction)</b>	NVC1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVO1	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVO2	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVO3	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Noise &amp; Vibration (Construction)</b>	NVC5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

REMM Topic	REMM	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
	NVC7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC9	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NVC16	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Non-Aboriginal Heritage (Design / Pre-Construction)</b>	NAH1	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH2	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH3	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH4	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH5	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH6	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH7	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH8	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH9	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH10	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH11	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Non-Aboriginal Heritage (Construction)</b>	NAH15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH16	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH17	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	NAH18	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH19	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	NAH20	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Non-Aboriginal Heritage (Operation)</b>	NAH21	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	NAH22	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	NAH23	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Aboriginal Heritage (Design / Pre-Construction)</b>	AH1	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	AH2	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	AH3	Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	AH4	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Aboriginal Heritage (Construction)</b>	AH5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Land Use &amp; Property (Design / Pre-Construction)</b>	LU1	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable

REMM Topic	REMM	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
	LU2	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	LU3	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
<b>Land Use &amp; Property (Construction)</b>	LU4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Socio-Economic Impacts (Design / Pre-Construction)</b>	SO1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	SO2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Socio-Economic Impacts (Construction)</b>	SO3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	SO4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Business Impacts (Design / Pre-Construction)</b>	BI1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	BI2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Landscape &amp; Visual Impacts (Design / Pre-Construction)</b>	LV1	Not Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	LV2	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	LV3	Not Applicable	Not Applicable	Not Applicable	Applicable	Applicable	Applicable	Partial – To the extent of operational activities only
	LV4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV5	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	LV6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	LV8	Applicable	Not Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	LV9	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Landscape &amp; Visual Impacts (Construction)</b>	LV10	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV11	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV12	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV13	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV14	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV15	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	LV16	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Soils &amp; Contamination (Design / Pre-Construction)</b>	SC1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	SC2	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable	Not Applicable
	SC3	Applicable	Applicable	Applicable	Not Applicable	Applicable	Not Applicable	Not Applicable
	SC4	Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Applicable	Not Applicable
	SC5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	SC6	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	SC7	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Soils &amp; Contamination (Construction)</b>	SC8	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Soils &amp; Contamination (Operation)</b>	SC9	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
<b>Hydrology, Flooding &amp; Water Quality (Design / Pre-Construction)</b>	FHW1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	FHW2	Not Applicable	Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
	FHW3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	FHW4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable

REMM Topic	REMM	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
<b>Hydrology, Flooding &amp; Water Quality (Construction)</b>	<b>FHW5</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>FHW6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>FHW7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>FHW8</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>FHW9</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>FHW10</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Hydrology, Flooding &amp; Water Quality (Operation)</b>	<b>FHW11</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
<b>Biodiversity (Design / Pre-Construction)</b>	<b>B1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>B2</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Biodiversity (Construction)</b>	<b>B3</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>B4</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>B5</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>B6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>B7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Biodiversity (Operation)</b>	<b>B8</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	<b>B9</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	<b>B10</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
<b>Air Quality (Design / Pre-Construction)</b>	<b>AQ1</b>	Partial – Risks associated with air quality impacts will be addressed in accordance with Table 5.	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Sustainability &amp; Climate Change (Design / Pre-Construction)</b>	<b>SCC1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>SCC2</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>SCC3</b>	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Partial – To the extent of construction activities only.	Applicable
	<b>SCC4</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>SCC5</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Sustainability &amp; Climate Change (Construction)</b>	<b>SCC6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>SCC7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>SCC8</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Sustainability &amp; Climate Change (Operation)</b>	<b>SCC9</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	<b>SCC10</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	<b>SCC11</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	<b>SCC12</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
<b>Hazards, Risks &amp; Safety (Design / Pre-Construction)</b>	<b>HRS1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>HRS2</b>	Not Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Applicable
	<b>HRS3</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Hazards, Risks &amp; Safety (Construction &amp; Operation)</b>	<b>HRS4</b>	Partial - To the extent of construction activities only.	Partial - To the extent of construction activities only.	Partial - To the extent of construction activities only.	Partial - To the extent of construction activities only.	Partial - To the extent of construction activities only.	Partial - To the extent of construction activities only.	Partial - To the extent of operational activities only.

REMM Topic	REMM	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
<b>Waste Management (Design / Pre-Construction)</b>	<b>WM1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>WM2</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Waste Management (Construction)</b>	<b>WM3</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>WM4</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>WM5</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>WM6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>WM7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Cumulative Impacts (Pre-Construction &amp; Construction)</b>	<b>CI1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

\* Denotes –TSOM will work under a Principal Contractor in accordance with Section 3.2.5 of this Report.



## Appendix C – Applicability of S2B CEMF Sections to each Stage

This table has been based on the latest version of the Sydenham to Bankstown Upgrade Construction Environmental Management Framework that was included as Appendix D to the Sydenham to Bankstown Upgrade EIS.

CEMF Topic	CEMF Section	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*	
<b>Introduction</b>	<b>1.1</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
	<b>1.2</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
	<b>1.3</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>1.4</b>	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	
<b>Legislative &amp; Other Requirements</b>	<b>2.1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>2.2</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>2.3</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>2.4</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
<b>Environmental Management Requirements</b>	<b>3.1</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	
	<b>3.2</b>	Partial – SMP sub-plans will be prepared in accordance with Table 5.	Partial – SMP sub-plans will be prepared in accordance with Table 5.	Partial – SMP sub-plans will be prepared in accordance with Table 5.	Partial – SMP sub-plans will be prepared in accordance with Table 5.	Partial – SMP sub-plans will be prepared in accordance with Table 5.	Partial – SMP sub-plans will be prepared in accordance with Table 5.	Partial – SMP sub-plans will be prepared in accordance with Table 5.	
	<b>3.3</b>	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Partial – Under section (c), the CEMP will outline (rather than cover the conditions of) all other permits and licences that apply and will not include the environmental provisions of the contract documentation.	Not Applicable
	<b>3.4</b>	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Partial – CEMP sub-plans will be prepared in accordance with Table 5.	Not Applicable
	<b>3.5</b>	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Partial – Procedures will be prepared for all environmental categories identified with 'CEMP-P' or 'SMP-P' and any procedures associated with management sub-plans in accordance with Table 5.	Not Applicable
	<b>3.6</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>3.7</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>3.8</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>3.9</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>3.10</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>3.11</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>3.12</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	<b>3.13</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>3.14</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>3.15</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	<b>3.16</b>	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

CEMF Topic	CEMF Section	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
<b>Stakeholder &amp; Community Involvement</b>	4.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	4.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	4.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Partial – Only to the extent of addressing complaints through actions.
	4.4	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	4.5	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>General Site Works</b>	5.1	Partial – Standard work hours as per applicable planning approval conditions.	Partial – Standard work hours as per applicable planning approval conditions.	Partial – Standard work hours as per applicable planning approval conditions.	Partial – Standard work hours as per applicable planning approval conditions.	Partial – Standard work hours as per applicable planning approval conditions.	Partial – Standard work hours as per applicable planning approval conditions.	Applicable
	5.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	5.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Spoil</b>	6.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	6.2	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable
	6.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Groundwater</b>	7.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	7.2	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable
	7.3	Applicable	Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>Traffic</b>	8.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	8.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	8.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Noise &amp; Vibration</b>	9.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	9.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	9.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Heritage</b>	10.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	10.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	10.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Flora &amp; Fauna / Biodiversity</b>	11.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	11.2	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable
	11.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Visual Amenity</b>	12.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	12.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	12.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
<b>Carbon &amp; Energy</b>	13.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	13.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	13.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
<b>Materials</b>	14.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable

CEMF Topic	CEMF Section	SMEW	LW	SMC	MCL	DCP	HBW	TSOM*
	14.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	14.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
Soil & Water	15.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	15.2	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	15.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
Air Quality	16.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
	16.2	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable
	16.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Not Applicable
Waste	17.1	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable
	17.2	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – Limited impacts to be addressed in CEMP.	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – CEMP Procedure only (limited impacts).	Not Applicable – Limited impacts to be addressed in SMP
	17.3	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable	Applicable