# Construction Environmental Management Plan

M6 Stage 1: Preliminary construction including commencement activities

**Transport for New South Wales** 

October 2021



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## **Construction Environmental Management Plan**

## M6 Stage 1 SSI-8931

# M6 Stage 1: Preliminary construction including commencement activities

## September 2021

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 M6 Stage 1 Construction Environmental Management Plan Preliminary construction including commencement activities 20 October 2021 Version 01
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#### **Document control**

#### Approval

In approving this CEMP, the Project Manager is confirming this document has been prepared in accordance with the requirements of the relevant EMP guidance as specified by the NSW Department of Planning, Industry and Environment and in consultation with relevant stakeholders, as outlined by conditions of approval.

| Title                                     | M6 Stage 1 Construction Environmental Management Plan |
|---|---|
| Endorsed by Environment<br>Representative | Derek Low   |
| Signed                                    | S-3   |
| Dated                                     | 20/10/2021  |
| Approved on behalf of TfNSW by            | Roy Morizzi   |
| Signed                                    | C.J.  |
| Dated                                     | 21/10/2021  |
| Approved on behalf of CGU by              | Craig Gibson  |
| Signed                                    | Craig Gibson  |
| Dated                                     | 20/10/2021  |

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#### Version control

| Revisi<br>on | Date       | Description   | Approval |
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| A.01         | 19/07/2021 | Initial TfNSW Review                                  |          |
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| 00           | 15/09/2021 | Issued for Approval                                   |          |
| 01           | 20/10/2021 | Updated with DPIE comments<br>and issued for Approval |          |

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The document is uncontrolled when printed. One controlled hard copy of the CEMP and supporting documentation will be maintained by the Quality Manager at the Project office and on the Project website.

| Copy number | Issued to | Version |
|-------------|-----------|---------|
|             |           |         |
|             |           |         |

#### Emergency and key contacts

| Position                                    | Name         | Phone   |
|---|--------------|---|
| EPA pollution hotline                       | N/A          | 131 555   |
| Fire and Rescue NSW                         | N/A          | 000 (for pollution incidents that<br>present an immediate threat to<br>human health or property)<br>1300 729 579 (for pollution<br>incidents that do not present an<br>immediate threat to human health<br>or property) |
| The Ministry of Health (NSW<br>Health)      | N/A          | (02) 9391 9000  |
| SafeWork NSW                                | N/A          | 131 050   |
| Bayside Council                             | N/A          | 1300 581 299  |
| Georges River Council                       | N/A          | 02 9330 6400  |
| Canterbury-Bankstown Council                | N/A          | 02 9707 9000  |
| 24-hour community information line          | N/A          | 1800 789 297  |
| Environmental and Sustainability<br>Manager | Craig Gibson |   |
| Project Director                            | Glen Ashton  |   |
| Environmental Representative                | Derek Low    |   |
| Acoustic Advisor                            | Andy Parker  |   |
| TfNSW Environmental<br>Representative       | Roy Morizzi  |   |

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\* Appendices which appear greyed out are not applicable to this CEMP for preliminary construction including commencement activities. These plans will be developed with the CEMP for the Construction Stage.

## **Glossary/Abbreviations**

| Abbreviation            | Expanded text  |
|-------------------------|--|
| ASS                     | Acid Sulfate Soils   |
| CEMP                    | Construction Environmental Management Plan                             |
| CEMS                    | Contractors Environmental Management System                            |
| CGU                     | CPB Contractors, Ghella, UGL Engineering joint venture                 |
|                         | Verification of how implementation is proceeding with respect to a     |
| Compliance audit        | Construction Environmental Management Plan (CEMP) (which               |
|                         | incorporates the relevant approval conditions).                        |
| CNVIA                   | Construction Noise and Vibration Impact Assessment                     |
| DPIE                    | Department of Planning, Industry and Environment                       |
| EES                     | NSW Department of Environment, Energy and Science                      |
| EIS                     | Environmental Impact Statement   |
| EMM                     | Updated Environmental Management Measures                              |
| EMS                     | Environmental Management System  |
| <b>F</b> action and a l | Defined by AS/NZS ISO 14001:2015 as an element of an                   |
| Environmental           | organisation's activities, products or services that can interact with |
| aspect                  | the environment.   |
| Environmental           | Defined by AS/NZS ISO 14001:2015 as any change to the                  |
|                         | environment, whether adverse or beneficial, wholly or partially        |
| impact                  | resulting from an organisation's environmental aspects.                |
| Environmental           | An unexpected event that has, or has the potential to, cause harm to   |
| incident                | the environment and requires some action to minimise the impact or     |
| Incluent                | restore the environment.   |
| Environmental           | Defined by AS/NZS ISO 14001:2015 as an overall environmental           |
| objective               | goal, consistent with the environmental policy, that an organisation   |
|                         | sets itself to achieve.  |
| Environmental           | Statement by an organisation of its intention and principles for       |
| policy                  | environmental performance  |
|                         | Defined by AS/NZS ISO 14001:2015 as a detailed performance             |
| Environmental           | requirement, applicable to the organisation or parts thereof, that     |
| target                  | arises from the environmental objectives and that needs to be set      |
|                         | and met in order to achieve those objectives.                          |
| EP&A Act                | Environmental Planning and Assessment Act 1979 (NSW)                   |
| EPA                     | NSW Environment Protection Authority                                   |
| EPL                     | Environment Protection Licence.  |
|                         | Environmental Representative - suitably qualified and experienced      |
|                         | person independent of project design and construction personnel        |
| ER                      | employed for the duration of construction. The principal point of      |
|                         | advice in relation to all questions and complaints concerning          |
| 5005                    | environmental performance.   |
| ESCP                    | Erosion and Sediment Control Plan                                      |
| EWMS                    | Environmental work method statement                                    |

| Abbreviation    | Expanded text   |
|-----------------|---|
| Hold point      | Is a verification point that prevents work from commencing prior to |
| riola políti    | approval from Transport for New South Wales Services                |
| IC              | Independent Certifier   |
| CoA             | Planning Minister's Conditions of Approval                          |
| Minister        | Minister of the NSW Department for Planning and Public Spaces       |
| NML             | Noise Management Level  |
| Non compliance  | Failure to comply with the requirements of the Project approval or  |
| Non-compliance  | any applicable licence, permit or legal requirements                |
| Non-conformance | Failure to conform to the requirements of Project system            |
| Non-comormance  | documentation including this CEMP or supporting documentation.      |
| PESCP           | Progressive Erosion and Sediment Control Plan                       |
| PIR             | Preferred Infrastructure Report                                     |
| PIRMP           | Pollution Incident Response Management Plan                         |
| POEO Act        | Protection of the Environment Operations Act 1997 (NSW)             |
| Principal, the  | Transport for New South Wales Services                              |
| Project, the    | M6 Stage 1  |
| ROL             | Road occupancy licence  |
| SAP             | Sensitive Area Plan   |
| SEARs           | Secretary's Environmental Assessment Requirements                   |
| TfNSW           | Transport for New South Wales Services                              |

### **1** Introduction

#### 1.1 Background

The M6 Stage 1 Project comprises a new twin motorway tunnel (approximately four kilometres in length) between the M8 Motorway at Arncliffe to President Avenue at Kogarah with a tunnel portal and entry and exit ramps connecting the tunnels to the surface (the Project).

Works include connection to the M8 Motorway, line marking of additional travel lanes between the St Peters interchange to the M6 Stage 1 tunnels, an intersection with President Avenue (including widening and raising of President Avenue), and intersection improvements at the President Avenue/Princes Highway intersection. Mainline tunnel stubs would be constructed to allow for connections to future stages of the M6 Extension.

An Environmental Impact Statement (EIS) for the Project was prepared in 2018 to assess potential impacts of construction and operation of the Project. The EIS was placed on public exhibition between 7 November to 14 December 2018. A Preferred Infrastructure Report (PIR) was subsequently prepared to address impacts to the local road network which was then publicly exhibited from 17 April 2019 to 8 May 2019.

The Project was declared Critical State Significant Infrastructure (CSSI) by virtue of Schedule 5, clause 11 of the *State Environmental Planning Policy (State and Regional Development) 2011* (SEPP) and was granted infrastructure approval under Section 5.19 of the *Environmental Planning and Assessment Act 1979* (EP&A Act) by the Minister for Planning and Public Spaces on 18 December 2019.

To facilitate delivery of the Project, the CPB Contractors, Ghella, UGL Engineering (CGU) Joint Venture has elected to stage construction of the Project. A Staging Report (M6S1-CGU-NWW-ENPE-PLN-000401) has been prepared and details the strategy for staging and the compliance requirements for each of the two construction stages. The stages of construction for the Project include:

- Stage 1 Preliminary Construction
  - Installation of environmental controls at construction compounds (C1, C2 & C3) such as fencing, hoarding and noise walls;
  - Removal of existing structures where required;
  - Establishment of site facilities such as offices, amenities and storage, including the installation and connection of services such as water, sewer and power;
  - Delivery of Plant and construction equipment;
  - Construction commencement activities such as site levelling, construction of haul roads and hardstands;
  - Installation of construction facilities such as water treatment plants; and
  - Repair, refurbishment and replacement (if required) of existing M8 construction facilities and services at the C1 site, to facilitate reuse for the M6 Stage 1 Project.
- Stage 2 Construction
  - Operation of ancillary facilities;
  - Bulk excavation including shafts; tunnels; and civil structures;
  - Construction of motorway operations complexes and facilities;
  - Mechanical and electrical fit-out of built structures as required;
  - Permanent power supply works (Earlwood to Rockdale);
  - Reinstatement and rehabilitation of construction areas; and

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• Other works as required to fulfil project objectives.

This CEMP applies only to preliminary construction (Stage 1) of the Project.

#### 1.2 Purpose of CEMP

This CEMP has been prepared to describe how the CGU will comply with the New South Wales (NSW) Minister for Planning's Conditions of Approval (CoA) during preliminary construction of the Project. The CEMP details how CGU will minimise environmental risk and achieve environmental outcomes for preliminary construction of the Project through the application of CGU's Environmental Management System (EMS) which will ensure appropriate Environmental Management Measures (EMM) and associated controls are implemented.

Implementing the CEMP and CEMP Sub-plans effectively will ensure that the Project meets the requirements of the CoA, Environmental Protection Licence (EPL) (pending) and EMMs. The requirements of these approvals and where they have been met in this CEMP are shown in Appendix A1: Legal requirements and compliance tracking, whilst agency consultation requirements for each CEMP Sub-plan are outlined in Appendix A5.

This CEMP has been prepared in accordance with the:

- Transport for NSW (TfNSW) QA Specification G36, G38 and G40;
- Infrastructure Approval (SSI 8931);
- Requirements of EMP guidance as specified by the Department of Planning, Industry and Environment (DPIE);
- The Staging Report (M6S1-CGU-NWW-ENPE-PLN-000401); and
- AS/NZS ISO 14001.

This CEMP is an overarching document in the EMS for the Project and includes a number of management documents. These are applicable to all staff, workforce and sub-contractors associated with preliminary construction of the Project.

#### 1.3 Project description

The CGU was appointed by TfNSW as the construction contractor for the Project. The Project will comprise a new four kilometre, multi-lane underground road link between the M8 Motorway and a surface intersection at President Avenue, Kogarah (Figure 1). Key components of the Project include:

- Mainline tunnels approximately 3.0km in length, sized for three lanes of traffic and line marked for two lanes on opening of the motorway;
- Entry and exit ramp tunnels approximately 1.5km in length and a tunnel portal connecting the tunnels to a surface intersection with President Avenue;
- Provision of a new intersection at President Avenue including the widening and raising of President Avenue at this location;
- Upgrade of the President Avenue and Princes Highway intersection to improve capacity and network integration;
- Provision of a new shared cycle and pedestrian pathways;
- Mainline tunnel stubs for a future connection to extend the Project to the south;
- Two motorway operation complexes (MOCs) as follows:
  - Arncliffe: including mechanical and electrical fit-out of the ventilation facility built by the M8 Motorway project, and provision of a new water treatment plant and substation.

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- Rockdale (south): including a ventilation building, Disaster Recover Site (DRS), substation and power supply, deluge tanks.
- A tunnel ventilation system, including ventilation facilities located at Marsh Street, Arncliffe and West Botany Street, Rockdale, and in-tunnel ventilation systems (jet fans and ventilation ducts);
- New utility services, and modifications and connections to existing Utility Services;
- A permanent power supply connection to the Rockdale Ventilation Facility Site MOC from Ausgrid's Canterbury Sub-Transmission Substation;
- Emergency access and evacuation facilities, including pedestrian and vehicular cross passages, long passages, fire and safety life systems;
- Ancillary infrastructure for motorway operations including operations management and control systems, permanent power supply, communications, lighting, electronic toll collection system, toll gantries and traffic control and signage (both fixed and variable signage);
- Drainage infrastructure to collect surface water and groundwater inflows for treatment;
- Reinstatement of Bicentennial Park and recreation facilities;
- Reinstatement and rehabilitation of construction leased areas within the Arncliffe Site;
- Minor adjustments to local roads in the Project area; and
- Development and implementation of systems integration and operating procedures with WestConnex Motorways to ensure safe operation of the interfaces between the Project and the WestConnex Motorways.

Preliminary construction is anticipated to commence in October 2021. Full construction activities (under an updated CEMP) are anticipated to commence in December 2021. Construction completion and operation of the motorway are anticipated in 2025.



Figure 1: Project Overview

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#### 1.4 Scope of the CEMP

This CEMP:

- Describes the Project in detail, including activities to be undertaken during preliminary construction;
- Addresses the requirements of the CoA, the EMMs listed in the Preferred Infrastructure Report (PIR) and EIS, contractual requirements and applicable legislation;
- Provides specific mitigation measures and controls that can be applied on-site to avoid or minimise negative environmental impacts;
- Provides specific mechanisms for compliance with applicable policies, approvals, licences, permits, consultation agreements and legislation;
- Describes the environmental management related roles and responsibilities of personnel;
- States objectives and targets for issues that are important to the environmental performance of the Project; and
- Outlines a monitoring regime to check the adequacy of controls as they are implemented during construction.

The Legal and Compliance Tracking checklist in Appendix A1 demonstrates how the CEMP complies with the environmental requirements. The CEMP provides for the environmental management of preliminary construction including commencement activities for the Project, and the establishment of temporary construction ancillary facilities.

This CEMP applies to the first stage of construction only, which includes preliminary construction and commencement activities at three construction compounds. Preliminary construction is anticipated to commence in October 2021. An indicative schedule for each construction compound including location / access requirements and applicable works is provided in Appendix A4 (Site Establishment Management Plan). A detailed list of preliminary construction activities proposed to commence in accordance with this CEMP are listed in Table 1. The locations where preliminary construction activities would occur are included in Figure 2, Figure 3 and Figure 4.

| Location  | Preliminary Construction Activities  |
|---|--|
| Arncliffe construction ancillary facility (C1)      | <ul> <li>Installation and/or repair of environmental mitigation<br/>measures (wheel baths, site hoarding and noise walls, frog<br/>fencing and for the ongoing management of the pre-<br/>existing stockpile)</li> </ul> |
|   | <ul> <li>Upgrade, refurbishment and use of site offices and amenities</li> </ul>   |
|   | <ul> <li>Refurbishment and use of workshops to facilitate delivery<br/>and assembly of construction equipment and plant</li> </ul>   |
|   | <ul> <li>Assessment and refurbishment of site services (sewer, low<br/>and high voltage power, water, dewatering facilities and<br/>compressed air)</li> </ul>   |
|   | • Assessment and refurbishment of existing equipment such<br>as the water treatment plant, shaft access equipment<br>(alimak and gantry crane), spoil bunds and acoustic sheds<br>(some repairs required)                |
|   | <ul> <li>Assessment and repair of existing M8 tunnel access<br/>structures (dive, shaft and adits) and services including:</li> </ul>  |
|   | <ul> <li>Geotechnical safety assessments</li> </ul>  |
|   | <ul> <li>Repair and replacement of temporary tunnel support<br/>systems as required</li> </ul>   |
|   | <ul> <li>Invert repairs (to facilitate subsequent construction access)</li> </ul>  |
|   | <ul> <li>Repair and refurbish tunnel services such as lighting,<br/>ventilation, power supply and communication<br/>equipment</li> </ul>   |
|   | <ul> <li>Upgrade or replace exiting construction service pipes<br/>(dewater, air) and emergency equipment (call points,<br/>caches etc).</li> </ul>  |
| Rockdale Depot construction ancillary facility (C2) | <ul> <li>Demolition of existing depot structures and property<br/>adjustments where required for access and site<br/>establishment</li> </ul>  |
|   | <ul> <li>Installation of mitigation measures including noise walls,<br/>fencing, hoarding, wheel bath, sediment and erosion<br/>control devices, and drainage</li> </ul>   |
|   | <ul> <li>Removal of vegetation in depot, which does not include any<br/>Plant Community Types (PCTs) or Threatened Ecological<br/>Communities (TECs)</li> </ul>  |
|   | Installation of site offices, amenities, workshop and parking  |
|   | <ul> <li>Connection of services such as water, sewer and power to offices and amenities</li> </ul>   |
|   | <ul> <li>Minor site levelling and installation of haul roads and<br/>hardstands</li> </ul>   |

| Location                      | Preliminary Construction Activities   |
|-------------------------------|---|
|                               | <ul> <li>Delivery and assembly of plant and equipment including<br/>water treatment plant</li> </ul>  |
|                               | <ul> <li>Creation of working platforms and pads for subsequent<br/>construction activities</li> </ul>   |
|                               | Construction of footings for noise walls, bentonite plant and construction water treatment plant (which may include some bored piling due to poor ground conditions)  |
| President Avenue construction | MOC area (west of West Botany Street):  |
| ancillary facility (C3)       | Demolition of existing structures and property adjustments including:   |
|                               | <ul> <li>Disconnection of existing services to buildings requiring<br/>removal</li> </ul>   |
|                               | <ul> <li>Adjustments to services, including sewer and overhead<br/>wiring</li> </ul>  |
|                               | Installation of fencing and crib sheds  |
|                               | <ul> <li>Creation of working platforms and pads for subsequent<br/>construction activities</li> </ul>   |
|                               | Within areas of Bicentennial Park (east of West Botany Street):   |
|                               | <ul> <li>Install pedestrian pathway between West Botany Street<br/>and Brighton-Le-Sands Public School</li> </ul>   |
|                               | <ul> <li>Installation of mitigation measures including fencing, noise<br/>walls, hoarding, wheel bath, sediment and erosion control</li> </ul>  |
|                               | <ul> <li>Demolition of existing structures (picnic and barbeque<br/>shelter) and property adjustments including minor<br/>vegetation clearing in compound area (no clearing of any<br/>PCTs or TECs for Stage 1)</li> </ul> |
|                               | Site levelling, which will include:   |
|                               | <ul> <li>Removal of existing kerbs and garden beds;</li> </ul>  |
|                               | $\circ$ Installation of geofabric; and  |
|                               | <ul> <li>Spreading and compaction of imported material to<br/>design levels.</li> </ul>   |
|                               | <ul> <li>Installation of site offices, amenities including establishment<br/>and use of workshop to facilitate delivery, inspection and<br/>assembly of construction plant and equipment</li> </ul>                         |
|                               | <ul> <li>Installation of site equipment such as a water treatment<br/>plant and bentonite plant</li> </ul>  |
|                               | Other commencement activities related to site<br>establishment including construction of stabilised site<br>access (but not operation of a construction compound)   |

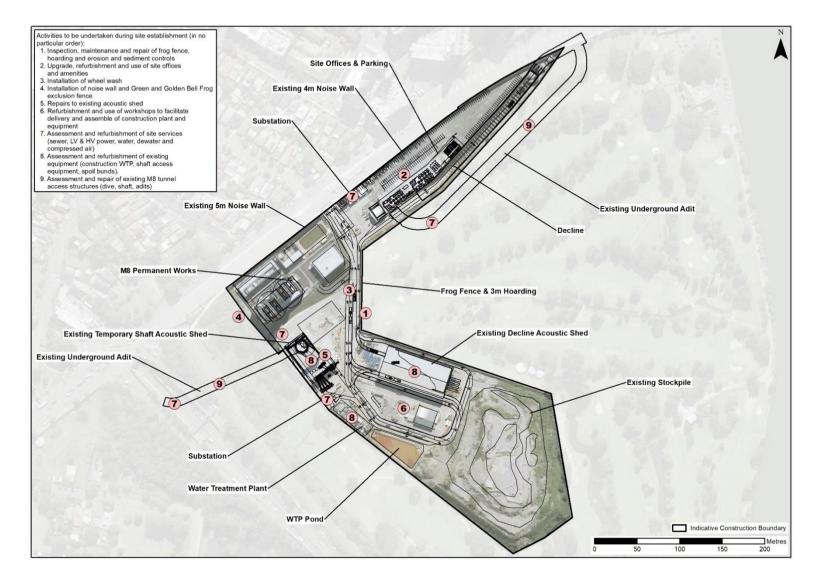


Figure 2: Preliminary construction at Arncliffe construction ancillary facility (C1)

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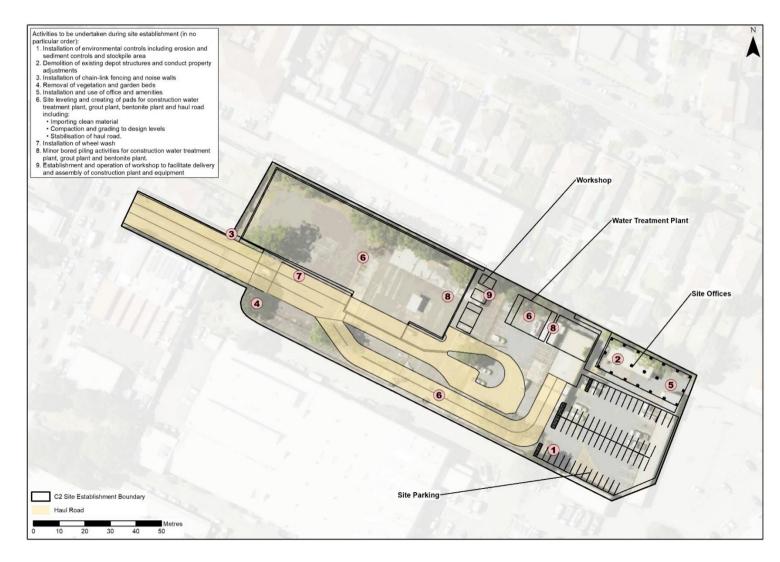


Figure 3: Preliminary construction at Rockdale Depot construction ancillary facility (C2)

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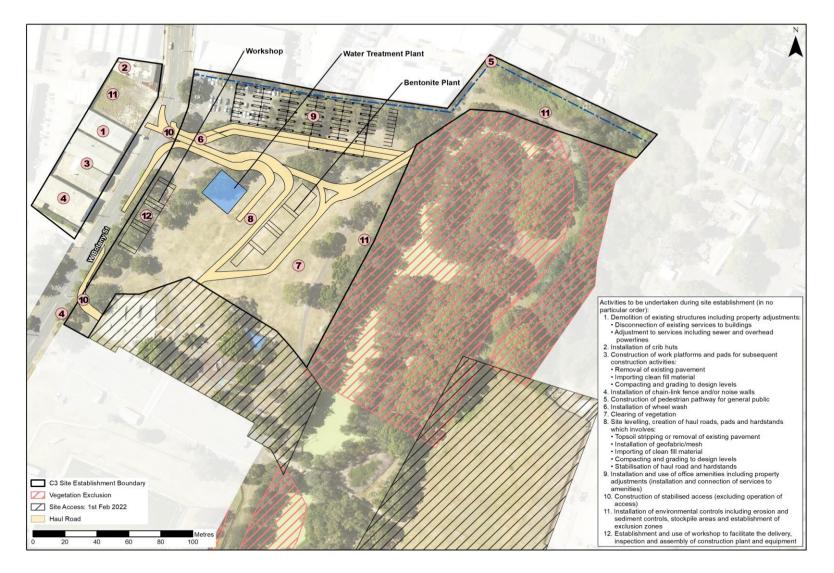


Figure 4: Preliminary construction at President Ave construction ancillary facility (C3)

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#### 1.5 Environmental Management System overview

This CEMP establishes the system for implementation, monitoring and continuous improvement to minimise environmental impacts from preliminary construction of the Project. This CEMP and associated CEMP Sub-plans will be provided to TfNSW for submission to the ER for endorsement and DPIE for approval prior to commencing preliminary construction. As a key Project document, the CEMP for preliminary construction (including commencement activities) integrates environmental management requirements, TfNSW obligations and community expectations during project delivery. It provides environmental management protocols for the preliminary construction stage of the Project.

Specifically, the CEMP:

- Identifies environmental management obligations relevant to preliminary construction of the Project and lists all applicable environmental legislation, permits and approvals;
- Identifies environmental hazards (aspects), potential impacts and risks associated with the works;
- Identifies reasonable and feasible measures to reduce the environmental impact of the works;
- Assists in prevention of unauthorised environmental impacts; and
- Fulfils CGU's EMS requirements, enabling continued certification to ISO14001.

This CEMP and associated CEMP Sub-Plans were prepared in accordance with TFNSW Specifications G36, G38, G40 and the *Guideline for the Preparation of Environmental Management Plans* (DIPNR, 2004). This CEMP describes how CGU will manage environmental issues during the preliminary construction stage of the project. Legal requirements and compliance tracking (Environmental Obligations) are listed in a register in Appendix A1. The register lists the following environmental management obligations and how the obligations will be achieved:

- Applicable legislation;
- Contract requirements;
- Project approval requirements; and
- Other obligations or commitments.

The register will be reviewed regularly, and updates will be made as necessary.

#### 1.5.1 Governance documentation

CGU's EMS is based on the requirements of the CPB Contractors Construction Management System (CMS). The CMS is certified to conform to AS/NZS ISO 14001:2016 *Environmental management systems – Requirements with guidance for use.* Evidence of certification is included in Appendix A3.

As shown in Figure 5, CGU's management system comprises the following components:

- Board Governance Overarching board governance.
- Policies A Policy is a statement of commitment and lists the mandatory requirements for individuals of the organisation to comply with.
- Procedures and Work Instructions Procedures and work instructions specify how to undertake and control specific activities.
- Tools Preformatted documents such as forms and templates that are required to be completed as part of following a Procedure.

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- Knowledge Reference material to provide context, additional information or guidance to a Policy or Procedure.
- Business Applications Software tools used to support CPB activities and Procedures.

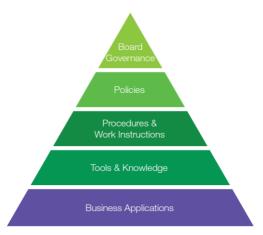


Figure 5: CPB Management System

The CMS has been developed to ensure a consistent approach to project delivery and foster continual improvement. Implementation of the CEMP demonstrates due diligence by monitoring and ensuring that:

- Contractual environmental requirements are being fulfilled;
- The Project is compliant with all relevant environmental legislation; and
- Environmental impacts are avoided (where possible) or minimised.

#### **1.5.2** Embedding environmental requirements in the design development process

Workshops were held during Project development with the design and construction teams to ensure that environmental and sustainability requirements were identified, considered and fully integrated into the tender design and construction methodology. Initiatives will be incorporated into the design where practicable. Any additional initiatives and compliance with environment and sustainability requirements will be documented within the Design Reports.

This CEMP as part of the EMS, will be implemented with compliance and performance monitored. A complete list of guidelines, legislation and other relevant documents can be found in Appendix A1.

### 2 Consultation, endorsement and approval

This CEMP and associated CEMP Sub-plans and procedures will be authorised by the CGU Project Director and TfNSW Environmental Lead prior to submission to the ER and DPIE. In accordance with the CoA, this CEMP for preliminary construction must be endorsed by the ER and then submitted to the Planning Secretary for approval no later than one month before the commencement of that stage of construction.

Details of agency consultation as required by CoA A5 will be provided in a consultation summary with the revision of the CEMP submitted for endorsement (ER) and Approval (DPIE). Copies of all relevant correspondence, undertaken as part of this consultation process will be available with the consultation summary.

In accordance with the Staging Report, CEMP Sub-plans have only been prepared for environmental aspects and impacts with moderate (or higher) residual risk (refer to Section 3.2.1,). Low risk environmental aspects would be managed during preliminary construction through the implementation of Environmental Management Procedures which are listed in Table 2.

Table 2: Environmental Management Procedures applicable to this CEMP

| Environmental Management Procedure          | Document                   |  |
|---|----------------------------|--|
| Traffic and Access Management Procedure     | M6S1-CGU-NWW-PE-PRO-000418 |  |
| Traile and Access Management Procedure      | (CEMP Appendix B1)         |  |
| Flora and Fauna Management Procedure        | M6S1-CGU-NWW-PE-PRO-000419 |  |
| Fiora and Fauna Management Frocedure        | (CEMP Appendix B2)         |  |
| Soil and Surface Water Management Procedure | M6S1-CGU-NWW-PE-PRO-000421 |  |
| Son and Sunace water Management Procedure   | (CEMP Appendix B4)         |  |

CEMP Sub-plans have been prepared in consultation with required stakeholders and government agencies. These Sub-plans are listed in Table 3.

Table 3: Relevant government agencies to be consulted for approval of CEMP Sub-plans related to the preliminary construction stage

| Required CEMP<br>Sub-plans | Consultation Agencies   | Approval Pathway |
|----------------------------|---|------------------|
| Noise and Vibration        | NSW Health, Bayside Council and Sydney Water<br>(vibration has the potential to impact on Sydney<br>Water assets) | ER (and AA) for  |
| Air Quality and<br>Odour   | NSW Health, Bayside Council, Georges River<br>Council and Canterbury/Bankstown Council                            | endorsement.     |
| Contamination              | nation Bayside Council, Georges River Council and Canterbury/Bankstown Council                                    |                  |
| Waste                      | Bayside Council, Georges River Council and<br>Canterbury/Bankstown Council  |                  |

To support genuine and efficient consultation activities, this CEMP has been provided to agencies listed in Table 3 for review with these CEMP Sub-plans.

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## **3** Construction Environmental Management Plan

#### 3.1 Preparation and availability of the CEMP

The CEMP has been prepared in accordance with requirements of the *Guideline for the Preparation of Environmental Management Plans (*October, 2004). It incorporates all requirements of the EIS documentation and all relevant licences, permits and approvals for the preliminary construction stage of the Project. This CEMP would be available on the M6 Stage 1 Project website and the Environment Policy (with Appendix A3) will be on display at the site office and communicated to staff and other interested parties via inductions and ongoing awareness programs.

This CEMP will be available to all workers, subcontractors, visitors or anyone working on the project throughout the duration of preliminary construction for the Project.

#### 3.2 Planning

#### 3.2.1 Environmental Risk Assessment Workshop

Risk identification and management processes are a key focus in developing and implementing all EMS documentation. The objective of these processes is to confirm that the Project is designed and constructed within acceptable limits of risk to personnel and the environment.

To assist in environmental risk identification, a review of potentially significant environmental aspects and impacts was undertaken to determine the specific CEMP Sub-plans required for preliminary construction of the Project. This included completing an assessment on the scope of work and the relevant CoAs and EMMs requirements, to determine the overall risk for each environmental management category (as listed in Table 4 of the Planning Approval).

The CEMP Sub-plans that would be used to manage the requirements associated with the preliminary construction stage of the Project was determined using a risk-based approach. For preliminary construction (as included in the scope of this CEMP), where the risk assessment concluded:

- An environmental category had a moderate (or greater) risk after mitigation and management measures had been applied, then it was determined that a CEMP Sub-plan would be required.
- An environmental category had a low (or negligible) risk after mitigation and management measures had been applied, then it was determined that a procedure within the CEMP would be required.
  - A low or negligible risk of an environmental category is assigned where the risks related to the scope of works, can be effectively managed through existing management and mitigation measures required under the TfNSW General Specifications (i.e. G36, G38, G40) and the CGU's Environmental and Safety Management Systems (based on the CPB Contractors Environmental Management System).
  - In addition to the above, the Management Procedures would be developed to address requirements identified in the EIS, CoA and EMMs appropriate to the scope of work for the identified stage (refer to Appendix A and Appendix B of this document).

Table 4 is a summary of the outcome of the risk assessment displaying the management tool applicable to this CEMP for preliminary construction. The full risk assessment is included in Appendix A2 of this CEMP. A risk assessment was also conducted for additional plans, programs and requirements identified in the CoA, which are listed in Table 5.

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Table 4: Environmental Management Category and corresponding Management Tool for this CEMP

| Environmental Management<br>Category                 | CoA   | Management Tool  |
|--|-------|--|
| Construction Environmental<br>Management Plan (CEMP) | C1    | CEMP: Preliminary construction and<br>commencement activities    |
| Traffic and Access                                   | C4(a) | Procedure (Appendix B1)  |
| Noise and Vibration                                  | C4(b) | Noise and Vibration preliminary Sub-plan and CNVIA (Appendix B3) |
| Flora and Fauna                                      | C4(c) | Procedure (Appendix B2)  |
| Air Quality and Odour                                | C4(d) | CEMP Sub-plan (Appendix B7)                                      |
| Soil and Surface Water                               | C4(e) | Procedure (Appendix B4)  |
| Groundwater  | C4(f) | Not applicable   |
| Contamination  | C4(g) | CEMP Sub-plan (Appendix B8)                                      |
| Waste  | C4(h) | CEMP Sub-plan (Appendix B9)                                      |
| Leachate and Landfill Gas                            | C4(i) | Not applicable   |

| Requirements                                    | CoA    | Outcome of applicability assessment                     |
|---|--------|---|
| Staging report                                  | A11    | Applicable  |
| Site Establishment Management<br>Plans          | A17    | Applicable (C1, C2, C3 only)                            |
| Communication Strategy                          | B1     | Applicable  |
| Green and Golden Bell Frog<br>PoM               | E44    | Applicable (for location C1)                            |
| Construction Parking and<br>Access Strategy     | E130   | Applicable  |
| Surface Water Monitoring<br>Program             | C13(a) | Not applicable - preconstruction monitoring to continue |
| Groundwater Monitoring<br>Program               | C13(b) | Not applicable - preconstruction monitoring to continue |
| Noise and Vibration Monitoring<br>Program       | C13(c) | Monitoring in accordance with CNVIA                     |
| Blast Monitoring Program                        | C13(d) | Not Applicable  |
| Air Quality Monitoring Program                  | C13(e) | Monitoring Program                                      |
| Flora and Fauna Monitoring<br>Program           | C13(f) | Not Applicable  |
| Leachate and Landfill Gas<br>Monitoring Program | C13(g) | Not Applicable  |
| Wetland Monitoring Program                      | C13(h) | Not Applicable  |

25 | M6 Stage 1 Construction Environmental Management Plan: Preliminary construction including commencement activities 20 October 2021 Version 01 UNCONTROLLED WHEN PRINTED Ongoing environmental risk and opportunities identification will be a key consideration and will be completed and captured using the following methods:

- Project Risk Register (as per the Risk Management Plan: M6S1-CGU-NWW-PCRM-MPL-000800);
- Construction Area Plan Risk Assessments (CAPRAs);
- Work Packs, including Work Pack Risk Assessment;
- Environmental Work Method Statements (EWMS) or Safe Work Method Statements (SWMSs), which address environmental risks (as applicable); and
- Pre-start meetings.

CGU will prepare the risk assessment and the planning documents detailed in Table 6 to ensure the Project is constructed safely, minimising environmental impacts and in compliance with approvals, licences and contractual obligations. This robust process will include a cross-functional review and sign-off at key stages.

| Key planning<br>document  | Description   |
|---------------------------|---|
| Construction<br>Area Plan | The planning document for each construction area, Construction Area<br>Plans (CAPs) will include overall construction approach and<br>methodology, Construction Area Plan Risk Assessment (CAPRA),<br>constructability reviews and associated Work Pack listing.  |
| Work Pack                 | A Work Pack is a document containing all the information required to<br>manage an activity. There will be multiple Work Packs referenced in<br>each CAP. Each Work Pack will include a step-by-step breakdown of the<br>activity to be undertaken, work method statement, sequencing,<br>inspection and test plans (ITPs), SWMSs, relevant drawings, and<br>environmental controls.   |
|                           | Work Packs will be developed to provide an integrated approach to the management of safety, quality and environmental risks, as set out in our Construction Management Plan. During construction planning for each work area, work methods will be reviewed, the risks identified during the design phase will be re-assessed, and new risks identified and recorded in the Work Pack for communication to field staff. All controls necessary to ensure compliance will be included in the Work Packs, which will reference the relevant SEPs, procedures, checklists and forms. Work Packs may identify the need for amendment to an existing SEP or preparation of a new SEP. Work Packs will be approved by the Project Environment Representative or delegate prior to commencement of works described in their scope. Relevance and adequacy of environmental controls identified in Work Packs will be reviewed and where required, updated. |
| SWMS or<br>EWMS           | A SWMS or EWMS description of methodology will be required to<br>complete an activity. It will describe the prescriptive sequence of tasks to<br>be undertaken. Depending on the activity's complexity or if the same<br>activity is being repeated elsewhere, the work method statement may be<br>a separate document included in the Work Pack.   |
|                           | The development of EWMSs or SWMSs will be conducted and formally recorded for relevant activities prior to their commencement. They will include environmental hazards and their mitigation for that task. Its purpose will be to communicate task methodology in detail to the   |

|                                     | <ul> <li>workplace personnel who are completing the task. Field staff will review and sign onto these documents, including the risk assessment and safe work systems, as part of a pre-start meeting.</li> <li>EWMS/ SWMS task-specific information will include work steps (in sequence) with work-step precautions, associated hazard(s) and hazard control(s), specific personal protective equipment, equipment available onsite, responsibilities, competencies and where applicable, permit conditions.</li> <li>The environmental context of a SWMS will be included to prompt consideration in the task steps, to address the positive actions of environmental care (i.e. dust control, erosion prevention, waste recycling, etc.) and address negative actions that may introduce an</li> </ul>  |
|-------------------------------------|--|
|                                     | environmental impact (i.e. contamination, pollution, etc.).  |
| Pre-start<br>meeting                | A pre-start meeting is a review of work progress and activities planned<br>for the incoming shift focused on creating a positive environment, safety<br>and quality culture and continually improving work habits, generating<br>greater workforce involvement and increasing accountability. It will:   |
|                                     | <ul> <li>Identify any changes that are to be made to the work or work<br/>environment, including impacts of nearby or interfacing work</li> </ul>  |
|                                     | <ul> <li>Include any environment or safety hazards reported and<br/>incidents that were reported on previous shifts.</li> </ul>  |
|                                     | Construction directors and Project managers will ensure that site<br>supervisors conduct daily pre-start meetings with all members of the<br>work team prior to commencing work for each shift. These meetings will<br>typically be conducted by a Supervisor or his/her approved delegate with<br>individual work crews. Attendance at the pre-start meeting will be<br>mandatory. Content of the pre-start meeting will be recorded, including<br>any issues raised as well as attendance. Pre-start meetings will be held<br>to ensure all workers are informed about hazards in their work area prior<br>to start of the work. It will be used in conjunction with the SWMS<br>document to ensure current on-site conditions (and hazards) are<br>considered with those identified in the SWMS document, particularly<br>looking for what conditions have changed (e.g. new workers, weather,<br>changed materials, etc.) since the work was previously undertaken, i.e.<br>the day or shift before. The pre-start meetings will contribute to<br>implementing a safe work habit of checking the immediate surroundings<br>and workplace conditions before starting, including considering potential<br>environmental impacts. |
| Site<br>Environment<br>Plans (SEPs) | SEPs are site specific A3 Plans that include detailed illustrations and descriptions of key environmental controls, and tables documenting key requirements. These will inform and fully integrate with detailed construction planning.  |

Identified environmental risks, controls and accountabilities will be communicated to all relevant personnel through preparation and communication of the CEMP, CEMP Sub-plans, CAPs, Work Packs, SWMSs/EWMSs, SEPs, toolbox meetings, and pre-start meetings.

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#### 3.2.2 Continual improvement

In addition to specifying the day-to-day environmental management of a project, this CEMP details activities to be performed to deliver continual improvement in environmental performance. The continual improvement process is illustration in Figure 6 and achieved through;

- CEMP audits and compliance reviews;
- Design and construction technique refinements and improvement of project environmental management outcomes; and
- Audit and review of individual components of CGU's EMS.

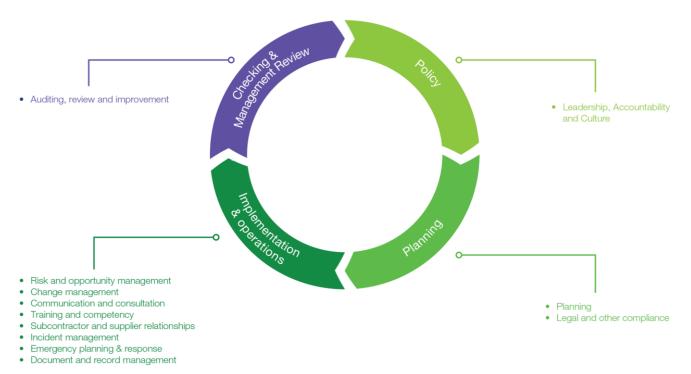


Figure 6 Continual Improvement Process

#### 3.2.3 Regulatory requirements and compliance

#### Legislation

A register of legal and other requirements for the Project is provided in Appendix A1. This register is maintained as a checklist. This register will be reviewed at regular intervals, such as during management reviews, compliance reviews and audits. The register will be updated with any applicable changes. Any changes made to the legal requirements register will be communicated to the wider project team, including subcontractors where necessary through toolbox talks, specific training and other methods detailed in Section 3.6 of this CEMP.

#### Approvals, permits and licences

Several approvals, permits and licenses have and/or will be obtained for the Project. Appendix A1 provides a register of all relevant environmental approvals, permits and licenses and the conditions required for compliance monitoring or auditing. The register will be maintained by CGU's Environmental and Sustainability Manager and will be reviewed prior to the commencement of the preliminary construction stage of the Project, and at regular intervals during any subsequent stages of construction (at least annually as part of the management review).

The environmental assessment recognised that the following approvals and licences are required for preliminary construction to commence:

- An Environment Protection Licence (EPL) for road construction; and
- Road Occupancy Licences (where/if required).

In accordance with CoA A2, all necessary licences, permits and approvals required for development of the Project will be obtained and maintained. No condition of the Project Approval removes the obligation to obtain, renew or comply with such necessary licences, permits or approvals except as provided under Section 5.23 of the EP&A Act.

#### 3.3 Compliance tracking

The CoA and EMM that apply to the preliminary construction stage of the Project are listed in Appendix A1 and provide a reference to where each requirement is addressed by this CEMP or other Project documentation.

#### 3.3.1 Environmental objectives and targets

As a means of assessing environmental performance during preliminary construction of the Project, environmental objectives and targets have been established. These objectives and targets have been developed with consideration of the requirements of the Project's CoA and EMM, and key issues identified through the environmental assessment and risk assessment process. The performance during preliminary construction of the Project will be monitored against the objectives and targets. The use of lead and lag indicators (Table 7 and Table 8) will be reported in the Project's monthly construction reports and as part of management reviews.

| Key<br>Performance<br>Indicator                        | Target   | When                            | How measured  | Accountability               |
|--|--|---------------------------------|---|------------------------------|
| Environmental<br>training                              | 100% of<br>scheduled<br>training<br>completed<br>on time | Prior to relevant<br>activities | Based on<br>environmental<br>risks and the<br>qualifications<br>and experience<br>of the Project<br>workforce | Support Services<br>Director |
| Environmental<br>management<br>review of Work<br>Packs | 100%   | Prior to activity commencement  | WP sign-off<br>Review register  | Project Engineer             |
| Completion of<br>Environmental<br>inspections          | 100%   | Each month                      | Inspections of<br>environmental<br>controls are<br>scheduled and<br>completed                                 | Environmental<br>Manager     |

Table 7: Leading indicators

Table 8: Lagging Indicators

| Key Performance<br>Indicator                                     | Target  | Time<br>Frame   | How measured  | Accountability  |
|--|---------|-----------------|---|---|
| Level 1 & 2<br>environmental<br>incidents                        | Zero    | Ongoing         | Incident<br>reporting   | Project Director /<br>Support Services<br>Director / Environmental<br>Manager |
| Number of<br>actions taken by<br>regulators and/or<br>client     | Zero    | At all<br>times | Implementation<br>of the CEMP   | Project Director /<br>Support Services<br>Director / Environmental<br>Manager |
| Area of land<br>cleared or<br>disturbed without<br>authorisation | Zero ha | At all<br>times | Implementation<br>of the Fauna<br>and Fauna<br>Management<br>Procedure    | Environmental Manager   |
| Number of<br>unauthorised<br>discharges                          | Zero    | At all<br>times | Implementation<br>of Soil and<br>Surface Water<br>Management<br>Procedure | Environmental Manager   |

Additional environmental objectives and targets for the Project are incorporated into relevant environmental documents and a summary is provided in Table 9. Additional aspect specific objectives are listed in relevant CEMP Sub-plans.

Table 9: Environmental objectives and targets

| Objective   | Target   | Measurement tool  |
|---|--|---|
| Construction of the Project in accordance with environmental approvals  | Full compliance with<br>statutory approvals                          | <ul><li>Audits</li><li>Construction</li></ul>                     |
|   |  | <ul><li>compliance reporting</li><li>Management reviews</li></ul> |
| Compliance with all loge!   | No vo eviletom :   | -   |
| Compliance with all legal requirements                                  | No regulatory<br>infringements (PINs or                              | <ul> <li>No formal regulatory<br/>warning</li> </ul>              |
|   | prosecutions)  | Audits  |
|   |  | Construction     compliance reporting                             |
|   |  | Management reviews  |
| Implement a rigorous and  | Address non-   | Audits  |
| comprehensive EMS that<br>meets the requirements of<br>AS/NZS ISO 14001 | conformances and<br>corrective actions within<br>specific timeframes | Management reviews  |
| Continuously improve  | Develop and maintain a   | Construction  |
| environmental performance   | program of ongoing<br>environmental training                         | compliance report   |
|   |  | Management review   |

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| Objective  | Target   | Measurement tool   |
|--|--|--|
|  | Capture lessons learnt<br>from environmental<br>incidents to minimise<br>repeat issues   |  |
|  | <ul> <li>Encourage and reward<br/>innovation and effort<br/>throughout the workforce</li> </ul>  |  |
| Ensure all environmental<br>management measures are<br>effectively implemented   | <ul> <li>Nil non-conformances in<br/>relation to implementation<br/>of the CEMP and CEMP<br/>sub-plans</li> </ul>  | Results of external<br>and internal audits<br>and site inspections   |
| Consultation – The project is<br>developed with meaningful and<br>effective engagement during<br>project delivery  | <ul> <li>Disseminate regular<br/>project updates and other<br/>information through the<br/>project website and other<br/>tools identified in the<br/>Communication Strategy</li> <li>Record and respond to<br/>complaints in a timely and</li> </ul> | <ul> <li>Review complaints<br/>register</li> <li>Construction<br/>compliance report</li> <li>Audits</li> </ul> |
|  | appropriate manner, and<br>within the timeframe<br>specified in the<br>Communication Strategy.   |  |
| Socio-economics, land use<br>and property - The project<br>minimises impacts to property<br>and business and achieves<br>appropriate integration with<br>adjoining land uses, including<br>maintenance of appropriate<br>access to properties and<br>community facilities, and<br>minimisation of displacement<br>of existing land use activities,<br>dwellings and infrastructure | Minimise impacts to<br>businesses during<br>construction   | <ul> <li>Review complaints<br/>register</li> <li>Construction<br/>compliance report</li> <li>Audits</li> </ul> |

#### 3.3.2 Environmental Work Method Statement and Sensitive Area Plans

Environmental Work Method Statements (EWMS) will be prepared to manage and control all highrisk activities that have the potential to negatively impact on the environment. EWMS will be prepared for high risk activities including those outlined in the EIS and those identified through the Environmental Risk Assessment Workshop (refer Section 3.2.1). EWMS will be prepared prior to the commencement relevant construction activities and will incorporate relevant mitigation measures and controls. They will be specifically designed to communicate requirements, actions, processes and controls to construction personnel using plans, diagrams and simply written instructions.

Based on the scope of preliminary construction, EWMS are not anticipated to be required during preliminary construction. However, if an EWMS is identified as being required it will be prepared progressively in the lead up to and throughout preliminary construction in consultation with relevant members from the Project team, and in consultation with the TfNSW Environmental Lead. EWMS for activities identified as having high environmental risk will undergo a period of consultation with

stakeholders (including the ER, IC and AA). In accordance with G36 Section 4.13, an EWMS will be submitted to TfNSW and the IC 5 days prior to works commencing within an Environmentally Sensitive Area for a Hold Point release.

To assist pre-construction planning and on-site management of preliminary construction activities, Sensitive Area Plans (SAPs) have been prepared and are included in Appendix A6. SAPs will be reviewed quarterly, or when there is a significant change in work activities.

#### 3.3.3 Performance Outcomes

Performance Outcomes are addressed in the appropriate project Sub-plans and Procedures. Table 10 demonstrates where performance outcomes related to the CEMP/EMS are addressed. Table 10: Performance outcomes

| Performance Outcomes  | Document Reference  |
|---|---|
| Environmental Impact Statement  | CEMP Sections 1.1 and 1.3   |
| The project is described in sufficient detail to<br>enable clear understanding that the project has<br>been developed through an iterative process of<br>impact identification and assessment and project<br>refinement to avoid, minimise or offset impacts so<br>that the project, on balance, has the least adverse<br>environmental, social and economic impact,<br>including its cumulative impacts. |   |
| Assessment of Key Issues  | CEMP Appendix A2  |
| Key issue impacts are assessed objectively and<br>thoroughly to provide confidence that the project<br>will be constructed and operated within<br>acceptable levels of impact.  |   |
| Key issues include:   |   |
| Air Quality   | Air Quality and Odour CEMP Sub-plan   |
| Noise and Vibration – Amenity   | Noise and Vibration CEMP Sub-plan   |
| Noise and Vibration – Structural  | Noise and Vibration CEMP Sub-plan   |
| Biodiversity  | Flora and Fauna Management Procedure  |
| Socio-economic, Land Use and Property   | Communications Strategy   |
| Water Quality   | Soil and Surface Water Management Procedure                                 |
| Soils   | Soil and Surface Water Management<br>Procedure, Contamination CEMP Sub-plan |
| Waste   | Waste CEMP Sub-plan   |
| Consultation  | CEMP Sections 2, 3.7.2 and 4  |
| The project is developed with meaningful and effective engagement during project design delivery.   |   |
| The Construction Contractors will respond to<br>complaints in a timely and appropriate manner so<br>that stakeholders' concerns are managed<br>effectively and promptly.  |   |

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#### 3.4 Resources, responsibilities and authority

Key environmental management roles and responsibilities for the preliminary construction phase of the Project are described in Table 11.

| Table 11: Environmental resources and re | esponsibilities |
|--|-----------------|
|--|-----------------|

| Role                                 | Responsibilities   |
|--------------------------------------|--|
| Environmental<br>Representative (ER) | The ER was engaged by TfNSW and CGU and has been approved by the Planning Secretary. The primary role of the ER is to independently oversee compliance with the Project Planning Approval and be the principal point of advice on the environmental performance of the works. The role and responsibilities of the ER are outlined in CoA A22 – A27. In accordance with CoA A26, roles and responsibilities of the ER include but are not limited to the following:  |
|                                      | Receive and respond to communication from the Planning Secretary in relation to the environmental performance of the CSSI  |
|                                      | Consider and inform the Planning Secretary on matters specified in the terms of the approval   |
|                                      | Consider and recommend to the Contractor and/or Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community  |
|                                      | <ul> <li>Review documents identified in Condition A17, C1, C4 and C13 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this approval and if so: Make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or Make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary)</li> </ul> |
|                                      | • Regularly monitor the implementation of the documents listed in Condition A17, C1, C4 and C13 to ensure implementation is being carried out in accordance with the document and the terms of this approval   |
|                                      | • As may be requested by the Planning Secretary, help plan, attend or<br>undertake audits of the development commissioned by the Department<br>including scoping audits, programming audits, briefings and site visits,<br>but not independent environmental audits required under Condition A37   |
|                                      | As may be requested by the Planning Secretary, assist in the resolution     of community complaints  |
|                                      | Consider or assess the impacts of minor ancillary facilities comprising lunch sheds, office sheds and portable toilet facilities as required by Condition A19 of this approval   |
|                                      | • Consider any minor amendments to be made to the CEMP, CEMP Sub-<br>plans and monitoring programs without increasing impacts to nearby<br>receivers or that comprise updating or are of an administrative nature,<br>and are consistent with the terms of this approval and the CEMP, CEMP<br>Sub-plans and monitoring programs approved by the Planning Secretary  |

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| Role                      | Responsibilities  |
|---------------------------|---|
|                           | and, if satisfied such amendment is necessary, approve the amendment.<br>This does not include any modifications to the terms of this approval  |
|                           | <ul> <li>Prepare and submit to the Planning Secretary and other relevant<br/>regulatory agencies, for information, an Environmental Representative<br/>Monthly Report in accordance with CoA A26(j)</li> </ul>  |
|                           | <ul> <li>Assess the impacts of activities as required by the Low Impact Works definition</li> </ul>   |
|                           | Generally fulfil all requirements under CoA A26.  |
| Acoustics Advisor<br>(AA) | The independent AA was engaged by TfNSW with a deed accession to CGU, and the appointment was been approved by the Planning Secretary. The primary role of the AA is to independently oversee construction noise and vibration planning, management and mitigation in accordance with the Project Planning Approval. The responsibilities of the Acoustics Advisor are outlined in Conditions A28 – A31. The role and responsibilities include the following: |
|                           | • (receive and respond to communication from the Planning Secretary in relation to the performance of the CSSI in relation to noise and vibration;  |
|                           | <ul> <li>consider and inform the Planning Secretary on matters specified in the<br/>terms of this approval relating to noise and vibration;</li> </ul>  |
|                           | <ul> <li>consider and recommend, to the Proponent, improvements that may be<br/>made to avoid or minimise adverse noise and vibration impacts;</li> </ul>   |
|                           | <ul> <li>review all noise and vibration documents required to be prepared under<br/>the terms of this approval and, should they be consistent with the terms<br/>of this approval, endorse them before submission to the Planning<br/>Secretary (if required to be submitted to the Planning Secretary) or<br/>before implementation (if not required to be submitted to the Planning<br/>Secretary);</li> </ul>  |
|                           | • regularly monitor the implementation of all noise and vibration documents required to be prepared under the terms of this approval to ensure implementation is in accordance with what is stated in the document and the terms of this approval;  |
|                           | • (f) in conjunction with the ER, the AA must:  |
|                           | <ul> <li>(i) as may be requested by the Planning Secretary or Community<br/>Complaints Mediator (required by Condition B11), help plan, attend or<br/>undertake audits of noise and vibration management of the CSSI<br/>including briefings, and site visits,</li> </ul>   |
|                           | • (ii) in the event that conflict arises between the Proponent and the community in relation to the noise and vibration performance of the CSSI, follow the procedure in the Communication Strategy required under Condition B1 to attempt to resolve the conflict, and if it cannot be resolved, notify the Planning Secretary,  |
|                           | • (iii) consider relevant minor amendments made to the CEMP, relevant<br>CEMP Sub-plans and noise and vibration monitoring programs that<br>require updating or are of an administrative nature, and are consistent<br>with the terms of this approval and the management plans and<br>monitoring programs approved by the Planning Secretary and, if satisfied   |

| Role                                    | Responsibilities   |
|---|--|
|   | such amendment is necessary, endorse the amendment, (this does not include any modifications to the terms of this approval),   |
|   | • (iv) review the noise impacts of minor construction ancillary facilities, and  |
|   | • (v) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, a Monthly Noise and Vibration Report detailing the AA's actions and decisions on matters for which the AA was responsible in the preceding month. The Monthly Noise and Vibration Report must be submitted within seven (7) days following the end of each month for the duration of the AA's engagement for the CSSI, or as otherwise approved by the Planning Secretary. |
|   | • Generally fulfil all other requirements in accordance with CoA A28 – A31.  |
| TfNSW<br>Environmental Lead             | The responsibilities of the TfNSW Environmental Lead include, but are not limited to:  |
|   | Review any environmental management plans and related documents     prepared for the project   |
|   | Review and consider minor project refinements that are consistent with the project environmental assessment  |
|   | <ul> <li>Monitor the environmental performance of the project in relation to the<br/>Approval, CEMP and associated sub-plans and procedures and TfNSW<br/>requirements</li> </ul>  |
|   | Liaise with the ER, AA and other government authorities as required  |
|   | Approve all project documents prepared by the contractor for submission to DPIE  |
|   | Assess compliance with the approval and other statutory instruments and conformance with the CEMP and CEMP Sub-plans   |
| CGU Project<br>Director                 | The environmental responsibilities of the CGU Project Director include, but are not limited to:  |
|   | <ul> <li>Be an emergency contact and available to be contacted by EPA and<br/>TFNSW Representative on a 24 hour basis</li> </ul>   |
|   | Endorse and support the project's Environmental Policy and this CEMP   |
|   | <ul> <li>Provide environmental leadership and ensure adequate resources are<br/>provided to effectively implement this construction environmental<br/>management plan</li> </ul>   |
|   | Liaise with ER as required   |
| CGU Support<br>Services Director        | The environmental responsibilities of the CGU Support Services Director include, but are not limited to:   |
|   | Provide environmental oversight, direction and leadership regarding the<br>environmental management of the project   |
|   | Liaise with ER as required   |
| CGU Environmental<br>and Sustainability | The environmental responsibilities of the CGU Environmental and<br>Sustainability Manager include, but are not limited to:   |
| Manager                                 | Be an emergency contact and available to be contacted by EPA and<br>TfNSW Environmental Lead on a 24-hour basis  |

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| Role                        | Responsibilities  |
|-----------------------------|---|
|                             | <ul> <li>Notify TfNSW, ER, AA and agencies as required in response to<br/>environmental incidents and potential incidents</li> </ul>  |
|                             | <ul> <li>Act as the main point of contact for the ER, AA, TfNSW Environmental<br/>Lead and approval authorities</li> </ul>  |
|                             | <ul> <li>Identify and maintain a register of relevant legal, CGU EMS requirements<br/>and other requirements</li> </ul>   |
|                             | Obtain all necessary approvals prior to commencing relevant works   |
|                             | Advise TfNSW of any amendments to CEMS or CEMP  |
|                             | <ul> <li>Ensure the project induction includes appropriate training regarding the requirements of this CEMP</li> </ul>  |
|                             | Ensure identified risks are analysed and evaluated according to agreed criteria   |
|                             | Regularly review identified risks and controls and maintain a risk register   |
|                             | • Ensure regular inspections, observations, monitoring and audits are conducted to check the effectiveness of controls and that compliance is maintained                              |
|                             | <ul> <li>Identify, assess and leverage opportunities to achieve sustainability<br/>outcomes</li> </ul>  |
|                             | <ul> <li>Review subcontractors' performance and compliance with CGU<br/>environmental requirements</li> </ul>   |
|                             | Enter and close out all incidents in the HSE Reporting System (Synergy)   |
|                             | <ul> <li>Identify and implement corrective and preventative actions after incidents<br/>and share lessons learned within the CGU team or other projects, as<br/>applicable</li> </ul> |
|                             | Provide input to the monthly project progress report  |
| CGU Environment<br>Advisors | The environmental responsibilities of the CGU Environment Advisors include, but are not limited to:   |
|                             | Assist the Environmental and Sustainability Manager to implement,<br>maintain and review this CEMP and associated documents   |
|                             | Act as the first source of environmental advice and information for the CGU design and construction teams   |
|                             | <ul> <li>Conduct regular inspections and monitoring in accordance with this<br/>CEMP and sub-plans</li> </ul>   |
|                             | <ul> <li>Respond to incidents and manage investigations as directed by the<br/>Environment, Approvals and Sustainability Manager</li> </ul>   |
|                             | Assist in the development and/or delivery of environmental training and awareness, e.g. project inductions, toolbox talks, pre-start, etc.  |
|                             | Undertake inspections, observations, monitoring and audits as required  |
|                             | Maintain regular communication with the Environment and Sustainability<br>Manager regarding environmental performance and conformance   |
|                             | Liaise with ER as required  |

| Role                          | Responsibilities   |
|-------------------------------|--|
| CGU Design<br>Director        | The environmental responsibilities of the CGU Design Manager include, but are not limited to:  |
|                               | <ul> <li>Ensure work is planned and executed to ensure compliance with<br/>environmental requirements</li> </ul>   |
|                               | <ul> <li>Define and implement processes to identify environmental risks at all<br/>stages of the Project</li> </ul>  |
|                               | <ul> <li>Ensure environmental controls appropriate to the level of risk are<br/>identified, documented and implemented</li> </ul>  |
|                               | <ul> <li>Identify design changes that have potential environmental and<br/>consistency consequences and ensure environmental risks associated<br/>with identified changes are assessed and controlled</li> </ul> |
|                               | Liaise with ER as required   |
| CGU Construction<br>Directors | The environmental responsibilities of the CGU Construction Directors include, but are not limited to:  |
|                               | Manage the delivery of the construction process  |
|                               | Ensure work is planned and executed to maintain compliance with<br>environmental requirements  |
|                               | Liaise with ER as required   |
| CGU Construction<br>Managers  | The environmental responsibilities of the CGU Construction Managers include, but are not limited to:   |
|                               | <ul> <li>Ensure work is planned and executed to ensure compliance with<br/>environmental requirements</li> </ul>   |
|                               | Liaise with ER as required   |
| CGU Engineers                 | The environmental responsibilities of CGU Engineers include, but are not limited to:   |
|                               | <ul> <li>Ensure appropriate mitigation and management measures are<br/>implemented and maintained on site</li> </ul>   |
|                               | <ul> <li>Implement corrective or preventative actions as required to fulfil the<br/>requirements of this plan Liaise with ER as required</li> </ul>  |
| CGU Supervisors               | The environmental responsibilities of the CGU Supervisors include, but are not limited to:   |
|                               | <ul> <li>Ensure appropriate mitigation and management measures are<br/>implemented and maintained on site</li> </ul>   |
|                               | Ensure regular inspections and monitoring requirements are undertaken to check effectiveness of environmental controls   |
|                               | Report environmental incidents and complaints immediately  |
|                               | Liaise with ER as required   |
| CGU Spoil Manager             | The environmental responsibilities of the CGU Spoil Manager include, but are not limited to:   |
|                               | <ul> <li>Identify and assess spoil reuse opportunities in consultation with the<br/>Environmental and Sustainability Manager</li> </ul>  |

| Role                             | Responsibilities   |
|----------------------------------|--|
|                                  | Ensure compliance with designated haul routes and for the day-to-day operation of the spoil management task in conjunction with the Traffic and Transport Manager  |
|                                  | Reporting on spoil disposal and reuse  |
|                                  | <ul> <li>Manage review and continual improvement of the Spoil Management<br/>Plan</li> </ul>   |
|                                  | Liaise with ER as required   |
| CGU Community<br>and Stakeholder | The environmental responsibilities of the CGU Community and Stakeholder Manager include, but are not limited to:   |
| Manager                          | Ensure environmental complaints and enquiries regarding construction works are recorded and responded to appropriately   |
|                                  | Effectively manage relationships with external stakeholders and ensure<br>stakeholders are informed of upcoming works  |
|                                  | Liaise with ER as required   |
| Independent<br>Certifier         | The environmental responsibilities of the Independent Certifier include, but are not limited to:   |
|                                  | <ul> <li>Receive a copy of this CEMP and provide requirements and<br/>recommendations where applicable on the CEMP and associated<br/>documents (D&amp;C Deed)</li> </ul>  |
|                                  | Liaise with ER as required   |
| Project team<br>(including sub-  | The environmental responsibilities of the wider project team (including sub-<br>contractors) include (but are not limited to) the following:   |
| contractors)                     | <ul> <li>Comply with the relevant requirements of the CEMP, or other<br/>environmental management guidance as instructed by a member of the<br/>Project's management</li> </ul>                                  |
|                                  | <ul> <li>Participate in all mandatory Project/site training, including induction<br/>program</li> </ul>  |
|                                  | Report any environmental incidents to the supervisor immediately or as soon as practicable if reasonable steps can be adopted to control the incident  |
|                                  | Undertake remedial action as required to ensure environmental controls     are maintained in good working order  |
|                                  | Liaise with ER as required   |
|                                  | • Stop activities where there is an actual or immediate risk of harm to the environment and immediately advise the Supervisor, Construction Manager, Construction Director or Construction Environmental Manager |

| Role                            | Responsibilities  |
|---------------------------------|---|
| Utility Coordination<br>Manager | The environmental responsibilities of the Utility Coordination Manager comprise:  |
|                                 | <ul> <li>Management and coordination of all utility works associated with the<br/>delivery of the CSSI, to ensure respite is provided to the community, as<br/>required under Conditions E69 and E71</li> </ul> |
|                                 | <ul> <li>Investigating complaints received from the Community Complaints<br/>Mediator relating to utility works</li> </ul>  |
|                                 | Providing a response to the Community Complaints Mediator   |

#### 3.5 Selection and management of subcontractors

The Environmental and Sustainability Manager, or delegate, will participate in the tender assessment and selection process where it is deemed necessary due to associated environmental risks. CGU will be responsible for the environmental performance of the sub-contractor. CGU will specify environmental requirements and responsibilities to sub-contractors in the contract documentation.

All sub-contractors are required to work in accordance with the approved CEMP. All sub-contractors are required to attend Project and/or site inductions where the requirements and obligations of the CEMP are communicated. A record of all sub-contractors inducted will be maintained as part of the Project induction and training register. A standard monitoring form will be developed that will be used to assess:

- Sub-contractors' general work practices;
- Effectiveness of the sub-contractor's environmental protection measures;
- Sub-contractor's compliance with the requirements of this CEMP; and
- Maintenance of environmental measures.

All environmental documentation submitted by contractors will be subject to review and approval by CGU staff to ensure compliance with TfNSW contract requirements, the CoA and EPL before works may begin. Environmental requirements and responsibilities are to be specified to sub-contractors in the contract documentation. As part of the selection process, consideration will also be given to their past environmental performance.

#### 3.6 Competence, training and awareness

To ensure that this CEMP is effectively implemented during preliminary construction, each level of management is responsible for ensuring that all personnel reporting to them are aware of the requirements of this CEMP. The Environmental and Sustainability Manager and HR Manager will coordinate environmental training in conjunction with other training and development activities.

#### 3.6.1 Environmental induction

All personnel (including subcontractors) are required to attend a compulsory site induction that includes an environmental component prior to commencement on-site to ensure all personnel are aware of the requirements of the CEMP, Planning Approval, EPL and the implementation of these requirements.

Visitors to site for purposes such as deliveries and undertaking inspections will be required to be accompanied by inducted personnel at all times. The environmental component of the induction must cover all elements of the CEMP and would include as a minimum:

#### • Requirements of due diligence and duty of care;

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- Environmental and compliance obligations under the terms of the approval, EPL and other statutory instruments;
- Potential environmental emergencies on site and the emergency response procedures;
- Reporting and notification requirements for pollution and other environmental incidents;
- High risk activities and associated environmental safeguards;
- The existence of EWMS for high risk activities, including working in or near environmentally sensitive areas;
- Requirements of the Driver's Code of Conduct; and
- Information about the community the project is working in and what to do when approached by a member of the public or media.

A record of all environment inductions will be maintained. The Environmental and Sustainability Manager may authorise amendments to the induction at any time.

#### 3.6.2 Toolbox talks, training and awareness

Toolbox talks are used to raise environmental awareness throughout construction and educate personnel on environmental issues. They will be tailored to specific environmental issues relevant to upcoming works, including details of EWMSs for relevant personnel.

Toolbox talk attendance is mandatory and attendees of toolbox talks are required to sign an attendance form and the records maintained.

Targeted environmental awareness training will be also provided to workers with a specific authority or responsibility for environmental management or those undertaking an activity with a high risk of environmental impact.

Awareness of environmental issues will also be communicated through posters, booklets, or similar and will be used to inform the broader workforce through either daily pre-starts meeting (refer to Section 3.2.1) or provision in worker crib sheds / break facilities.

#### 3.6.3 Daily Pre-Start Meetings

The pre-start meeting is a used to inform the workforce of the day's activities, environmental protection practices, work area restrictions, coordination issues with other trades, hazards and other information that may be relevant to the day's work.

The Supervisor will conduct a daily pre-start meeting with the site workforce before the commencement of work each day (or shift) or where changes occur during a shift.

The environmental component of pre-starts will be determined by relevant supervisor and environmental personnel and will include any environmental issues that could potentially be impacted on or by the day's activities. All attendees will be required to sign on to the pre-start and acknowledge their understanding of the issues explained.

#### 3.6.4 Working hours

In accordance with CoA E62 and E63 works included within the scope of preliminary construction are permitted during the following standard hours:

- 7:00am to 6:00pm Mondays to Fridays, inclusive;
- 8:00am to 6:00pm Saturdays; and
- at no time on Sundays or public holidays.

Except as permitted by an EPL, highly noise intensive works that result in an exceedance of the applicable Noise Management Level (NML) at the same receiver must only be undertaken:

- Between the hours of 8:00 am to 6:00 pm Monday to Friday;
- Between the hours of 8:00 am to 1:00 pm Saturday; and
- If continuously blocks not exceeding three (3) hours each with a minimum respite from those activities or works of not less than one (1) hour.

In accordance with CoA E65 'continuously' includes any period during which there is less than one hour between ceasing and recommencing works.

Work may be undertaken outside the hours specified in specific circumstances. In all cases of works outside of the Standard Working Hours specified above, the Noise and Vibration preliminary Subplan and CNVIA must be followed, including the implementation of the OOHW permit system. Circumstances where OOHW may be considered include:

- For delivery of materials required by the NSW Police Force or other authority for safety reasons; or
- Where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm; or
- Where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or
- Works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol required by Condition E70; or
- Construction that causes LAeq(15 minute) noise levels:
  - No more than 5 dB(A) above the rating background level at any residence in accordance with the Interim Construction Noise Guideline (DECC, 2009); and
  - No more than the 'Noise affected' noise management levels specified in Table 3 of the Interim Construction Noise Guideline (DECC, 2009) at other sensitive land uses; and
  - Continuous or impulsive vibration values, measured at the most affected residence are no more than the maximum values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006); and
  - Intermittent vibration values measured at the most affected residence are no more than the maximum values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).

Any Out-of-Hours works that are regulated by the EPL will be conducted in accordance with the conditions of the EPL and CoA E68 and E69. Out of hours works will only be conducted in accordance with E70 if an EPL is not applicable to the works.

At the time of preparing this CEMP, the *Environmental Planning and Assessment (COVID-19 Development – Infrastructure Construction Work Days) Order 2020* is in effect. Under that order, the carrying out of work on a Saturday, Sunday or public holiday is permitted, noting that infrastructure construction projects:

- Must be the subject of an approval granted before the commencement of this Order; and
- Must comply with all conditions of the approval other than any condition that restricts the hours of work or operation on a Saturday, Sunday or public holiday; and
- For work or operation on a Saturday, Sunday or public holiday:
  - Comply with the conditions of the approval that restrict the hours of work or operation on any other day as if the conditions applied to work or operation on a Saturday, Sunday or public holiday; and

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- Not involve the carrying out of rock breaking, rock hammering, sheet piling, pile driving or similar activities during the hours of work or operation that would not be permitted but for this Order; and
- Take all feasible and reasonable measures to minimise noise.

The above changes to construction work hours are only applicable while the *Environmental Planning and Assessment (COVID-19 Development – Infrastructure Construction Work Days) Order 2020* is in effect (until 24 December 2021). If this order ceases to have effect, construction hours would revert back to those specified in Conditions E62, E63, E64 and E65.

#### 3.7 Communication

Regular meetings will be scheduled with the ER, AA, and relevant TfNSW and CGU personnel to communicate ongoing environmental performance and to identify and address any issues. A Communication Strategy (M6S1-CGU-NWW-CYCG-MPL-000900) has been prepared and provides details on the mechanisms to facilitate communication between project parties, stakeholders and the community in accordance with the CoA B1.

#### 3.7.1 Liaison with EPA, government authorities or other relevant stakeholders

The Environmental and Sustainability Manager will report the ongoing environmental performance of the preliminary construction of the Project to TfNSW, the ER, AA and relevant government agencies. Relevant government agencies will be consulted throughout preliminary construction in accordance with the Communication Strategy.

The CGU Project Director and the Environmental and Sustainability Manager are the key emergency response personnel during an environmental site emergency. The CGU Project Director and Environmental and Sustainability Manager are the authorised contact person for communications with TfNSW, ER, AA, DPIE and the EPA on environmental matters.

TfNSW will be notified regarding site inspections from environmental regulators and will be provided with a written notice following one working day of the visit.

#### 3.7.2 Community liaison and/or notification

Consultation and engagement with the community will be in accordance with the Communication Strategy. Community liaison officers will be available at all times that works occur and will be available to assist the public with questions and complaints they may have in accordance with the Complaints Management System as specified under CoA B6.

Key stakeholders and the community will be consulted during the preliminary construction stage in accordance with the Communication Strategy. Regular meetings will be held to discuss environmental performance, upcoming works, and any planned high-risk activities.

#### 3.7.3 Complaints management

A Complaints Management System has been developed for the project, in accordance with CoA B6 to B14.The Communications Strategy contains further detail on the Complaints Management System, the complaints register and the Community Complaints Mediator.

A toll free number is available to the community to make a complaint: 1800 789 297

The Environmental and Sustainability Manager will apply an adaptive approach to ensure that corrective actions are applied in consultation with the appropriate construction staff to allow modifications and improvements to work methods in the management of any environmental issues resulting in community complaints. The Environmental and Sustainability Manager will also manage compliance with complaint management conditions associated with the EPL.

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#### 3.8 Emergency and Incident Planning

An environmental incident is an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance. This may be as a consequence of which pollution (air, water, noise, and land) or an adverse environmental impact has occurred, is occurring, or is likely to occur.

Adverse environmental impact includes contamination, harm to flora and fauna (either individual species or communities), damage to heritage items and adverse community impacts. The management and reporting of an environmental incident, including pollution incidents will follow the TfNSW Environmental Incident Procedure, refer to Appendix A7. This document sets out the procedure to be followed if, during any activity being carried out on or no behalf of TfNSW, there is:

- A report only event;
- A non-compliance event;
- Regulatory action received; and/or
- An environmental incident.

The requirements of the procedure must be communicated to all project personnel and contractors (e.g. during inductions) who undertake work activities associated with the Project Environmental incidents must be classified as per Table 12.

| C6<br>Insignificant                            | C5<br>Minor  | C4<br>Moderate  | C3<br>Major  | C2<br>Severe<br>Significant Incider  | C1<br>Catastrophic  |
|--|--|---|--|--|---|
| No<br>appreciable<br>changes to<br>environment | Change from<br>existing<br>conditions<br>that can be<br>rectified<br>immediately<br>(<1 day) with<br>available<br>resources. | Short-term<br>(<1 year)<br>and/or well-<br>contained<br>environmental<br>impact.<br>Minor<br>remedial<br>actions<br>probably<br>required. | Short to<br>medium term<br>(between 1<br>and <5 years)<br>environmental<br>impact.<br>Considerable<br>remedial<br>actions<br>probably<br>required. | Medium-term<br>(>5 years)<br>environmental<br>impact.<br>Extensive<br>remedial<br>actions<br>probably<br>required. | Long-term<br>(>10 years)<br>large-scale<br>environmental<br>impact.<br>Extensive and<br>ongoing<br>remedial<br>actions<br>probably<br>required. |

#### Table 12: TfNSW environmental incident classification

Note: This table has been modified to show only classification by environmental impact. Incident classification categories related to risk areas, reputation and integrity, and regulations and compliance, have been excluded from this table for the purposes of this CEMP, but will still be applied in accordance with Appendix A7.

Environmental incidents that have the potential to be classified as significant incidents (C3, C2 or C1) as per Table 12 will be notified immediately (verbally) to the TfNSW Environmental Lead and relevant regulatory authorities as per Section 3.2 of the procedure located in Appendix A7. Incident reports will be provided to TfNSW Environment Lead and the Environmental Representative in accordance with the procedure, including lessons learnt from each environmental incident and proposed measures to prevent the re-occurrence of a similar incident. All reasonable efforts will be implemented to avoid and reduce impacts of incidents, with suitable controls enacted. Incidents will be closed out as quickly as possible, taking required action to resolve each environmental incident.

This notification process is in addition to other regulatory incident reporting requirements including CoA A39 and A40; requiring immediate written notification to be made to DPIE (<u>compliance@planning.nsw.gov.au</u>) after becoming aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one), and set out the time, date, location and nature of the incident. It must also describe any consequent non-

compliance with this approval (SSI 8931). In accordance with CoA A40, subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix A of the Infrastructure Approval which requires a report to be provided within 7 days, and a more detailed report to be provided within 30 days.

Environmental incidents that are classified as C6, C5 or C4 (as per Table 12) will be notified to the TfNSW Environmental Lead on the day of the incident as per Section 3.2 of the procedure. Other relevant regulatory agencies will be notified as required by CoA A39 and A40, and an incident report will also be prepared and submitted to the TfNSW Environmental Lead within 3 business days of the incident.

The EPA will be notified of any pollution incidents on (or around) the site within 24-hours of the pollution incident occurring. Notification will be completed via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of *the Protection of the Environment Operations Act 1997* (NSW) (POEO Act). The circumstances where this will take place include:

- It involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial; or
- It results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations).

In accordance with the requirements of the EPL for the works, a Pollution Incident Response Management Plan (PIRMP) will be prepared and implemented. CGU will provide all records of environmental incidents and regulatory action to the TfNSW Environmental Lead.

Where an incident involves a potential impact to an Aboriginal site, relevant authorities such as Heritage New South Wales, and Registered Aboriginal Parties will be notified and their input sought in closing out the incident.

#### 3.9 Monitoring, inspections and auditing

#### 3.9.1 Environmental inspections

#### Weekly and post rainfall site inspections

The Environmental and Sustainability Manager (or delegate) will undertake weekly and post rainfall inspections (as per Soil and Surface Water Management Procedure requirements) of work sites during preliminary construction to evaluate the effectiveness of environmental controls using an inspection checklist form.

Any required maintenance and/or deficiencies in environmental controls will be recorded on the checklist, including any actions required following an implementation priority. Actions will be closed out in accordance with the identified priority and evidence of close out would be kept on file.

#### **ER and TfNSW inspections**

The ER and TfNSW staff will undertake regular inspections of works sites, in particular critical activities, throughout the preliminary construction stage. Inspections by the ER and TfNSW project staff would occur on a fortnightly basis depending on the complexity and anticipated risks associated with the works. A member of the CGU environment team will participate in all ER and TfNSW inspections.

Deficiencies and required actions will be analysed and prioritised at the completion of the inspection and timeframes for implementation of corrective actions agreed.

#### **Daily inspections**

A daily inspection will be carried out by the supervisor of each work area and will include a check of relevant environmental controls and resources required to ensure effective operation and maintenance.

#### 3.9.2 Environmental monitoring

Environmental monitoring will be undertaken to validate the impacts predicted for the Project to measure the effectiveness of environmental controls and implementation of this CEMP, and to address approval requirements. Environmental monitoring required for the preliminary construction stage of the project is detailed in the Air Quality and Odour CEMP Sub-plan and associated Air Quality Monitoring Program and the Noise and Vibration Preliminary Sub-plan and CNVIA for commencement activities. Where a non-conformance is detected or monitoring results are outside of the expected range the process described in Section 3.10 will be implemented.

All environmental monitoring equipment shall be maintained and calibrated according to manufacturer's specifications and appropriate records kept.

#### 3.9.3 Auditing

All Project activities will be assessed for compliance in accordance with CGU's Environmental Management System (based upon CPB Contractors Environmental Management System).

Independent Audits will be conducted to provide an independent and objective assessment of the environmental performance and compliance status of the Project. Independent audits will be undertaken in accordance with the DPIE Independent Audit Post-Approval Requirements May 2020 (PAR 2020). Proposed independent auditors will be agreed to in writing by the Planning Secretary prior to the commencement of an Independent Audit. The commencement of the independent audit program will coincide with the commencement of Stage 2 Construction, with all other compliance monitoring commencing from the start of Stage 1 preliminary construction and continuing through both construction stages.

Internal parent company auditing will also be undertaken on an annual basis over the duration of the Project.

The purpose of auditing is to verify compliance with:

- This CEMP and CEMP Sub-plans;
- Approval requirements (CoA, EMM); and
- Any relevant legal and other requirements (e.g. licences, permits, regulations, TfNSW contract documentation including G36, G38 and G40 specifications).

Auditing requirements on the Project are summarised in Table 13.

#### Table 13: Audit requirements

| No. | Audit                             | Requirement  | Timing  | Responsibility                              |
|-----|-----------------------------------|--|---|---|
| 1   | Independent<br>audit (CoA<br>A37) | Verify compliance with<br>approval and legal<br>requirements, TfNSW<br>specifications,<br>construction<br>documentation and any<br>other commitments | Independent Audits<br>will commence 12<br>weeks after Stage 2:<br>Construction then at<br>six monthly intervals<br>there-after. | Environmental and<br>Sustainability Manager |
| 2   | Internal<br>audit                 | Verify compliance with<br>approval and legal<br>requirements, TfNSW<br>specifications and<br>construction<br>documentation                           | Annually  | Environmental and<br>Sustainability Manager |

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#### 3.9.4 Construction Phase Compliance tracking

CGU has elected to implement the PAR 2020 (as detailed in Section 3.9.3) on the Project. The PAR 2020 has removed the requirement for construction reporting, which was mandated under the DPIE Compliance Reporting Post Approval Requirements 2018 and CoA A35. CGU will carry out a compliance monitoring and reporting program in accordance with CoA C13 and will continue to monitor compliance against the Legal and Compliance Tracking Register located in Appendix A1.

In accordance with CoA A34 the construction compliance report must provide details of any review of, and minor amendments made to, the CEMP (which must be approved by the ER), resulting from construction carried out during the reporting period.

#### 3.9.5 Other reporting

Prior to, during and following the preliminary construction stage, various reports will be prepared to fulfil TfNSWs reporting needs, and requirements under the Project approval. Table 14 details reporting requirements applicable to the preliminary construction stage of the Project, timing of the reporting, and who is responsible for managing preparation of the reports.

| No. | Report                                   | Requirement   | Timing   | Responsibility                                 |
|-----|--|---|--|--|
| 1   | Monthly<br>environmental<br>report       | For incorporation in Project Monthly<br>Reports including environmental<br>statistics (i.e. incidents, regulatory<br>action, complaints on environmental<br>issues), regulatory and authority<br>considerations, monitoring program<br>performance and key environmental<br>issues. | Monthly  | Environmental and<br>Sustainability<br>Manager |
| 2   | EPL monthly report                       | Pollution monitoring data as required by section 66(6) of the POEO Act.   | Monthly  | Environmental and<br>Sustainability<br>Manager |
| 3   | EPL annual returns                       | Report on compliance with EPL.  | Annually   | Environmental and<br>Sustainability<br>Manager |
| 4   | ER monthly report                        | Report of including information required by CoA A26.  | Monthly  | Environmental<br>Representative                |
| 5   | Environmental<br>risk assessment         | Conducted for each construction<br>stage, Project changes and<br>significant issues.  | Prior to<br>construction<br>during<br>development<br>of CEMP<br>and as<br>required<br>thereafter | Environmental and<br>Sustainability<br>Manager |
| 6   | Monitoring<br>results                    | Report on monitoring data as<br>required for CEMP Sub-plans and<br>Monitoring Programs.   | As required  | Environmental and<br>Sustainability<br>Manager |
| 7   | Monthly Noise<br>and Vibration<br>Report | Report on noise and vibration<br>monitoring data as required by CoA<br>A31.   | Monthly  | Environmental and<br>Sustainability<br>Manager |

Table 14: Reporting requirements

#### 3.10 Environmental non-conformities

#### 3.10.1 Non-compliance

An environmental non-compliance is a breach with any condition of approval, licence condition or any other statutory approval relevant to the activity and/or area where the activity occurs. Potential and actual non-compliances will be classified and reported in accordance with the TfNSW Environmental Incident Classification and Reporting Procedure (Appendix A7). DPIE will be notified in an environmental non-compliance as described above occurs.

The ER will also report environmental non-compliances within the ER Monthly Report.

#### 3.10.2 Non-conformance

An environmental non-conformance is failure to conform with EMS documentation including this CEMP and supporting documentation. Any member of the project team, ER, AA, public authority or TfNSW may raise a non-conformance or improvement opportunity. The Quality Management Plan describes the process for managing non-conforming work practices and initiating corrective, preventative actions or system improvements.

In the event of a non-conformance the contributing factors of the failure will be investigated to determine the source. If it is determined the source of the non-compliance is outside CGU's control the contributor will be notified.

For each non-conformance identified, suitable corrective or preventative action (or actions) must be identified and implemented to rectify the non-conformance and prevent reoccurrence. In addition, any environmental management improvement opportunities can be initiated as a result of incidents or emergencies, monitoring and measurement, audit findings or other reviews. Improvement opportunities may also result in the implementation of corrective/preventative actions.

Corrective/preventative actions and improvement opportunities will be entered into the contractor's quality system database and include detail of the issue, action required and timing and responsibilities. The record will be updated with date of close out and any necessary notes. The database will be reviewed regularly to ensure actions are closed out as required.

Non-conforming activities may be stopped, if necessary, by the Environmental and Sustainability Manager, Environmental Advisors or Project / Site Engineers following consultation with the Construction Manager (or delegate). The works will not commence until a corrective / preventative action has been closed out. The Environmental Representative may also stop works in these circumstances. In such circumstances a non-conformance report must be prepared in accordance with the Quality Management Plan.

In accordance with CoA A40, all non-conformance reporting against the CEMP or Sub-plans must comply with the requirements provided in Appendix A of the Infrastructure Approval.

#### 3.11 Records of environmental activities

#### 3.11.1 Environmental records

The Environmental and Sustainability Manager is responsible for maintaining all environmental management documents and records including:

- Monitoring, inspection and compliance reports/records;
- Correspondence with public authorities;
- Induction and training records;
- Regulatory licences and permits;

- Reports on environmental incidents, other environmental non-conformances, complaints and follow-up action;
- Minutes of review meetings and evidence of any action taken;
- CEMP, CEMP Sub-plans and procedures;
- EWMS; and
- Any relevant reports submitted to the regulatory authorities or government agencies.

All environmental management documents are subject to ongoing review and continual improvement. This includes times of change to scheduled activities or to legislative or licencing requirements.

#### 3.12 Management review

Management reviews will be undertaken as part of the continual improvement process. Management reviews will include:

- A review of the aspects and impacts register, legal register and environmental induction;
- A review of the environmental risk assessment;
- Analysis of the causes of non-conformances and deficiencies, including those identified in environmental inspections;
- Consideration of incidents and lessons learnt;
- A review of the effectiveness of environmental controls;
- Effectiveness of environmental management documentation implementation;
- Potential improvements to the environmental management documentation;
- Adequacy of resources and organisation changes;
- Compliance with legal and other requirements and consideration of new issues; and
- Effectiveness of training and inductions.

Where the change identified as necessary to avoid non-compliance or significant environmental risks, the amendments will be prioritised to be undertaken as soon as possible. A project risk register, incorporating relevant environment risks, will also be maintained to ensure that key environmental risks are documented.

#### 3.13 CEMP and CEMP Sub-plan revision and changes to the Project

#### 3.13.1 CEMP Revision

Continual improvement is achieved through constant measurement and evaluation, and audit and review of the effectiveness of this CEMP and associated Sub-plans and Procedures. Should document review processes identify issues or items within the documents that are either redundant or in need of updating, the Environmental and Sustainability Manager will prepare changes to the revised documents.

The revised document will then be issued to the TfNSW and to the ER or DPIE to review and approve changes. Where changes are minor they may be approved by the ER. Minor changes would typically include those that:

- Are administrative in nature (e.g. staff and agency/authority name changes);
- Are consistent with the CoA;

- Do not increase the magnitude of impacts on the environment when considered individually or cumulatively;
- Are in response to audit findings or periodic reviews;
- Are in response to the approval of a consistency assessment or a modification to the project Planning Approval; and
- Do not comprise the ability of the project to meet approval or legislative requirements.

Where the ER deems that a change is not minor it will be provided to the Secretary of DPIE for review and approval (following endorsement by the ER).

#### 3.13.2 Changes to the Project

Refinements to the project may result from detailed design or changed circumstances during construction. The Environmental and Sustainability Manager will undertake an assessment and consistency assessment in consultation with TfNSW to determine if a project modification may be required.

Should the consistency assessment determine that a project modification may be required, the ER will be informed and modification application under Section 5.25 of the EP&A Act prepared and lodged by TfNSW to the Planning Secretary for determination.

Following the approval of consistency assessments and/or project modifications this CEMP, the CEMP Sub-plans and Procedures will be reviewed to assess if an update is required. Where the plan requires revision the process in Section 3.13 would be followed.

#### 3.14 Directions from DPIE

All written requirements or directions received from DPIE shall be complied with at all times (CoA A4), including in relation to:

- The environmental performance of the CSSI;
- Any document or correspondence in relation to the CSSI;
- Any independent appointment or dismissal made in relation to the CSSI;
- Any notification given to the Secretary under the terms of this approval;
- Any audit of the construction or operation of the CSSI;
- The terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval);
- The carrying out of any additional monitoring or mitigation measures; and
- In respect of ongoing monitoring and management obligations, compliance with an updated or revised version of a guideline, protocol, Australian Standard or policy required to be complied with under this approval.

### **4** Construction control

A number of CEMP Sub-plans and Procedures support this CEMP. These documents were prepared identifying requirements and processes applicable to specific aspects and impacts of the activities described in CSSI assessment documentation. They address requirements of the CoA, EMM and other measures identified in the environment assessment documentation as they relate to the preliminary construction stage of the Project. References to the relevant CEMP Sub-plans and Procedures are provided in the sections below.

The Project's Staging Report (M6S1-CGU-NWW-ENPE-PLN-000401) documents the required Project-wide environmental documentation to be prepared for construction stages and the timing required for submission where required. A list of CEMP Sub-plans required for the preliminary construction stage of the Project and their approval requirements, are provided in Table 15.

| Document name  | Document number                  | Consultation and approval requirements  |
|--|----------------------------------|---|
| Appendix B3 Noise and<br>Vibration Preliminary Sub-plan<br>and CNVIA for preliminary | M6S1-CGU-NWW-ENNV-PLN-<br>000403 | Consultation with NSW<br>Health, Bayside Council and<br>Sydney Water.   |
| construction including<br>commencement activities                                    |                                  | Endorsement by ER and AA  |
|  |                                  | Approval by DPIE  |
| Appendix B7 Air Quality and<br>Odour CEMP Sub-plan                                   | M6S1-CGU-NWW-ENPE-PLN-<br>000407 | Consultation with NSW<br>Health, Bayside Council,<br>Georges River Council and<br>Canterbury Bankstown<br>Council |
|  |                                  | Endorsement by ER   |
|  |                                  | Approval by DPIE  |
| Appendix B7 Air Quality  | M6S1-CGU-NWW-ENPE-PLN-           | Consultation with EPA   |
| Monitoring Program   | 000408                           | Endorsement by ER   |
|  |                                  | Approval by DPIE  |
| Appendix B8 Contamination<br>CEMP Sub-plan   | M6S1-CGU-NWW-ENPE-PLN-<br>000413 | Consultation with Bayside<br>Council, Georges River<br>Council and<br>Canterbury/Bankstown<br>Council             |
|  |                                  | Endorsement by ER   |
|  |                                  | Approval by DPIE  |
| Appendix B9 Waste CEMP Sub-<br>plan  | M6S1-CGU-NWW-ENPE-PLN-<br>000414 | Consultation with Bayside<br>Council, Georges River<br>Council and<br>Canterbury/Bankstown<br>Council             |
|  |                                  | Endorsement by ER   |
|  |                                  | Approval by DPIE  |

Table 15: CEMP Sub-plans and Monitoring Programs for the preliminary construction stage.

50 | M6 Stage 1 Construction Environmental Management Plan: Preliminary construction including commencement activities 20 October 2021 Version 01 UNCONTROLLED WHEN PRINTED Where a separate CEMP Sub-plan is not required for the preliminary stage of the Project, information regarding environmental management and control of specific areas are outlined in the sections below.

#### 4.1 Soil and Surface Water Management

A Soil and Surface Water Management Procedure (Appendix B4) was developed to manage the soil and surface water risks for the preliminary construction stage of the Project. This Procedure describes effective management, monitoring and event response procedures which will be implemented to mitigate soil and surface water impacts associated with preliminary construction (including commencement activities). The Soil and Surface Water Management Procedure includes the following set of procedures for:

- Erosion and sediment control;
- Stockpile management;
- Construction site dewatering and water reuse; and
- Spill prevention and response.

Preliminary construction including commencement activities will be managed to minimise dewatering requirements at C2 and C3 (as detailed in Water Reuse and Discharge Management Procedure) and no dewatering activities are anticipated to occur at these construction ancillary facilities. It is noted that the existing construction water treatment plant at the C1 Arncliffe construction ancillary facility will continue to operate in accordance with existing M8 requirements. Operation of the water treatment plant following handover from the M8 contractor will be subject to operating procedures and the project's EPL.

No works within waterways will occur during the preliminary construction stage, and there are no sediment basins required for the Project. Pre-construction monitoring of waterways within the Project location will continue (as per the EIS monitoring) throughout the preliminary construction stage.

#### 4.2 Flora and Fauna Management

A Fauna and Flora Management Procedure (Appendix B2) has been developed to manage the risks related to flora and fauna during the preliminary construction stage of the Project. The Procedure includes:

- Clearing and Grubbing Procedure for minor tree clearing at locations C2 and C3;
- Fauna Handling Procedure in case fauna is encountered;
- Weed Management Procedure; and
- Green and Golden Bell Frog Stop Works Procedure (specific to C1).

Occupation of the Arncliffe construction ancillary facility (C1) triggers the requirement to implement the Green and Golden Bell Frog Plan of Management (GGBF PoM) in accordance with CoA E44. In conjunction with the GGBF PoM, a stop work Procedure has also been developed in the unlikely event a GGBF is encountered during the CEMP activities.

#### 4.3 Heritage Management

A Heritage Management Plan has been developed which includes the TfNSW Unexpected Finds Procedure and a procedure for the unexpected find of human remains. This document is located in Appendix B6.

#### 4.4 Site Establishment Management Plan

A Site Establishment Management Plan (SEMP) has been prepared (Appendix A4) that details the ancillary facilities that will be established during preliminary construction and commencement activities. The Site Establishment Management Plan (Appendix A4) includes:

- The location of ancillary facilities;
- A map of ancillary facilities;
- Requirements for the management of the ancillary facilities such as fencing, bunded storage, environmental controls etc.; and
- Processes which need to be undertaken if changes to the SEMP are required.

#### 4.5 Traffic and Access Management

A Traffic and Access Management Procedure (Appendix B1) has been developed to manage the risks related to traffic and access during preliminary construction and commencement activities. CEMP activities also trigger the requirement for the Construction Access and Parking Strategy (CoA E130).

# **List of Appendices**

- Appendix A1 Legal and Compliance Tracking
- Appendix A2 Aspect and Impacts Register
- Appendix A3 Environmental Policy
- Appendix A4 Site Establishment Management Plan
- Appendix A5 Document register
- Appendix A6 Sensitive Area Plans
- Appendix A7 TfNSW Environmental Incident Procedure
- Appendix B1 Traffic and Access Management Procedure
- Appendix B2 Flora and Fauna Management Procedure

Appendix B3 – Noise and Vibration Sub-plan and CNVIA for preliminary construction including commencement activities

- Appendix B4 Soil and Surface Water Management Procedure
- Appendix B5 Groundwater CEMP Sub-plan
- Appendix B6 Heritage Management Plan
- Appendix B7 Air Quality and Odour CEMP Sub-plan and Air Quality Monitoring Program
- Appendix B8 Contamination CEMP Sub-plan
- Appendix B9 Waste CEMP Sub-plan

Appendix B10 – Leachate and Landfill Gas CEMP Sub-plan

\* Greyed out plans are not applicable to this CEMP for preliminary construction including commencement activities. These plans will be developed with the CEMP for the Construction Stage.



# **Appendix A1**

## Legal Requirements and Compliance Tracking Register

M6 Stage 1: Preliminary construction including commencement activities October 2021

## Minister's Conditions of Approval and Environmental Management Measures

Table 1: Minister's Conditions of Approval

| СоА     | Condition Requirements   | Document Reference             |  |  |  |  |
|---------|--|--------------------------------|--|--|--|--|
| General | Seneral  |                                |  |  |  |  |
| A1      | The CSSI must be carried out in accordance with the terms of this approval and generally in accordance with the description of the CSSI in the EIS, the Response to Submissions on the EIS, the PIR and Response to Submissions on the PIR.  | This CEMP                      |  |  |  |  |
| A2      | The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance outcomes and mitigation measures set out in the documents identified in Condition A1 unless otherwise specified in, or required under, this approval.   | This CEMP and<br>Section 3.3.3 |  |  |  |  |
| A3      | In the event of an inconsistency between the EIS, as amended by the description in the Response to Submissions and PIR, or any other document required under this approval, and a term of this approval, the term of this approval prevails to the extent of the inconsistency.  | Noted                          |  |  |  |  |
|         | Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.  |                                |  |  |  |  |
| A4      | The Proponent must comply with the written requirements or directions of the Planning Secretary, including in relation to:   | Section 3.14                   |  |  |  |  |
|         | <ul> <li>(a) the environmental performance of the CSSI;</li> <li>(b) any document or correspondence in relation to the CSSI (including the provision of such documentation or correspondence);</li> <li>(c) any independent appointment or dismissal made in relation to the CSSI;</li> <li>(d) any notification given to the Planning Secretary under the terms of this approval;</li> <li>(e) any audit of construction or operation;</li> <li>(f) the terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval);</li> <li>(g) the carrying out of any additional monitoring or mitigation measures; and</li> </ul> |                                |  |  |  |  |
|         | <ul> <li>(h) in respect of ongoing monitoring and management obligations, and following consultation with<br/>the Proponent, compliance with an updated or revised version of a guideline, protocol, Australian<br/>Standard or policy required to be complied with under this approval.</li> </ul>  |                                |  |  |  |  |
| A5      | Where the terms of this approval require a document or monitoring program to be prepared, or a review to be undertaken, in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary with the document. The evidence must include:   | Section 2                      |  |  |  |  |

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| СоА | Condition Requirements   | Document Reference |
|-----|--|--------------------|
|     | <ul> <li>(a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;</li> <li>(b) a log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them;</li> <li>(c) documentation of the follow-up with the identified party where engagement has not occurred to confirm that they do not wish to engage or have not attempted to engage after repeated invitations;</li> <li>(d) outline of the issues raised by the identified party and how they have been addressed; and</li> <li>(e) a description of the outstanding issues raised by the identified party and the reasons why they have not been addressed.</li> </ul> |                    |
| A6  | This approval lapses five (5) years after the date on which it is granted, unless works are physically commenced on or before that date.   | Noted              |
| A7  | References in the terms of this approval to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this approval.   | Noted              |
| A8  | Any document that must be submitted within a timeframe specified in or under the terms of this approval may be submitted within a later timeframe approved by the Planning Secretary. This condition does not apply to the immediate written notification required in respect of an incident under Condition A39.<br>Note: Inaction and/or expedience will not be supported as justifications for need unless it can be demonstrated that there is beneficial environmental impacts associated with the request.   | Noted              |
| A9  | All Independent Appointments required by this approval must hold current membership of a relevant professional body, unless otherwise approved by the Planning Secretary.  | Noted              |
| A10 | <ul> <li>The Planning Secretary may at any time commission an audit of how an Independent Appointment has exercised their functions. The Proponent must:         <ul> <li>(a) facilitate and assist the Planning Secretary in any such audit; and</li> <li>(b) make it a term of their engagement of an Independent Appointment that the Independent Appointment facilitate and assist the Planning Secretary in any such audit.</li> </ul> </li> <li>The Planning Secretary may dismiss an Independent Appointment should they consider the Independent Appointment has not exercised their functions in accordance with this approval.</li> </ul>  | Noted              |

| СоА       | Condition Requirements  | Document Reference                                     |
|-----------|---|--|
| A11       | The CSSI may be constructed and operated in stages. Where staged construction or operation is proposed, a Staging Report (for either or both construction and operation as the case may be) must be prepared and submitted to the Planning Secretary for information. The Staging Report must be submitted to the Planning Secretary no later than one month before the commencement of construction of the first of the proposed stages of construction (or if only staged operation is proposed, one month before the commencement of operation of the first of the commencement of operation of the first of the proposed stages of the first of the proposed stages of operation.   | Staging Report<br>Section 1.1                          |
| A12       | <ul> <li>The Staging Report must:</li> <li>(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;</li> <li>(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 and finish;</li> <li>(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 and finish (if relevant);</li> <li>(c) specify how compliance with conditions will be achieved across and between each of the stages of the CSSI; and</li> <li>set out mechanisms for managing any cumulative impacts arising from the proposed staging.</li> </ul> | Staging Report   |
| A13       | The CSSI must be staged in accordance with the Staging Report, as submitted to the Planning<br>Secretary  | Staging Report   |
| A14       | Where staging is proposed, the terms of this approval that apply or are relevant to the works or activities to be carried out in a specific stage must be complied with at the relevant time for that stage.  | Staging Report<br>Section 3.2.1                        |
| A15       | Where changes are proposed to the staging of construction or operation, a revised Staging Report must be prepared and submitted to the Planning Secretary for information no later than one (1) month prior to the proposed change in the staging.  | Staging Report   |
| Ancillary | Facilities  |  |
| A16       | <ul> <li>Ancillary facilities that are not identified by description and location in the EIS and PIR can only be established and used in each case if:</li> <li>(a) they are located within or immediately adjacent to the construction boundary; and</li> <li>(b) they are not located next to a sensitive receiver (including where an access road is between the facility and the receiver), unless the sensitive receiver landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and</li> <li>(c) they have no impacts on heritage items (including areas of archaeological sensitivity), threatened</li> </ul>  | Appendix A4 – Site<br>Establishment<br>Management Plan |

| СоА        | Condition Requirements   | Document Reference |  |
|------------|--|--------------------|--|
|            | species, populations or ecological communities beyond the impacts approved under the terms of<br>this approval; and<br>the establishment and use of the facility can be carried out and managed within the performance<br>outcomes set out in the terms of this approval, including in relation to environmental impacts.  |                    |  |
| Site Estal | blishment Management Plan  |                    |  |
| A17        | The Proponent must prepare and submit for approval to the Planning Secretary one (1) month before the<br>establishment of any construction ancillary facility (excluding minor construction ancillary facilities<br>established under Condition A19) a Site Establishment Management Plan. The Plan must be prepared in<br>consultation with the relevant council and government agencies and must include:  | Establishment      |  |
|            | <ul> <li>(a) an outline of the environmental management practices and procedures to be implemented at the facility(ies);</li> <li>(b) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of works to be undertaken at the site);</li> <li>(c) figures illustrating the proposed operational site layout;</li> <li>(d) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (b) of this condition, including an initial risk assessment undertaken prior to the commencement of site establishment works;</li> <li>(e) details of how the site establishment activities described in subsection (b) of this condition will be carried out to: <ul> <li>(i) meet the performance outcomes stated in the documents listed in Condition A1, and</li> <li>(ii) manage the risks identified in the risk analysis undertaken in subsection (d) of this condition; and</li> </ul> </li> <li>(f) a program for monitoring the performance outcomes, including a program for noise monitoring of site establishment activities.</li> <li>The establishment of the construction ancillary facilities cannot commence until the Planning Secretary has approved the Site Establishment Management Plan for the relevant ancillary facilities.</li> <li>Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plan for all facilities. The approved Site Establishment Management Plan(s) must be implemented.</li> </ul> |                    |  |

 <sup>5 |</sup> M6 Stage 1 CEMP: Preliminary construction including commencement activities Appendix A1: Legal Requirements and Compliance Tracking Register
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| СоА      | CoA Condition Requirements   |   |
|----------|--|---|
| A19      | Lunch sheds, office sheds, portable toilet facilities, and the like, can be established and operated where they satisfy the following criteria:  | Appendix A4 – Site<br>Establishment                   |
|          | <ul> <li>(a) are located within the construction boundary; and</li> <li>(b) have been assessed by the ER to have - <ul> <li>(i) low amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts, and</li> <li>(ii) low environmental impact with respect to waste management and flooding, and</li> <li>(iii) no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.</li> </ul> </li> </ul> | Management Plan                                       |
| Boundary | y Screening  |   |
| A20      | Boundary screening must be erected around all ancillary facilities that are adjacent to sensitive receivers for the duration of construction unless otherwise agreed with the relevant council and affected residents, business operators or landowners.   | Appendix 4 – Site<br>Establishment<br>Management Plan |
| A21      | Boundary screening required under Condition A20 of this approval must minimise visual, noise and air quality impacts on adjacent sensitive receivers   | Appendix 4 – Site<br>Establishment<br>Management Plan |
| Environn | nental Representative  |   |
| A22      | Works must not commence until an ER has been approved by the Planning Secretary and engaged by the Proponent   | Completed   |
| A23      | The Planning Secretary's approval of an ER must be sought no later than one month before the<br>commencement of works.   | Completed   |
| A24      | The proposed ER must be a suitably qualified and experienced person who was not involved in the preparation of the documents listed in Condition A1, and is independent from the Proponent and companies involved in the design and construction of the CSSI.  | Noted   |
| A25      | The Proponent may engage more than one ER for the CSSI, in which case the functions to be exercised by an ER under the terms of this approval may be carried out by any ER that is approved by the Planning Secretary for the purposes of the CSSI.  | Noted   |

| СоА | Condition Requirements  | Document Reference           |  |
|-----|---|------------------------------|--|
| A26 | For the duration of the works, or as approved by the Planning Secretary, the approved ER must:  | Section 2                    |  |
|     | <ul> <li>(a) receive and respond to communication from the Planning Secretary in relation to the<br/>environmental performance of the CSSI;</li> </ul>  | Section 3.4<br>Section 3.9.5 |  |
|     | <ul> <li>(b) consider and inform the Planning Secretary on matters specified in the terms of this approval;</li> <li>(c) consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community;</li> <li>(d) review documents identified in Conditions A17, C1, C4 and C13 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this approval and if so: <ol> <li>make a written statement to this effect before submission of such documents to the</li> </ol> </li> </ul> |                              |  |
|     | <ul> <li>Planning Secretary (if those documents are required to be approved by the Planning Secretary); or</li> <li>ii. ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary / Department);</li> </ul>   |                              |  |
|     | <ul> <li>(e) regularly monitor the implementation of the documents listed in Conditions A17, C1, C4 and C13<br/>to ensure implementation is being carried out in accordance with the document and the terms of<br/>this approval;</li> </ul>  |                              |  |
|     | <ul> <li>(f) as may be requested by the Planning Secretary, help plan, attend or undertake audits of the<br/>CSSI commissioned by the Department including scoping audits, programming audits, briefings<br/>and site visits, but not independent environmental audits required under Condition A37 of this<br/>approval;</li> </ul>  |                              |  |
|     | <ul> <li>(g) as may be requested by the Planning Secretary, assist the Department in the resolution of<br/>community complaints;</li> </ul>   |                              |  |
|     | <ul> <li>(h) assess the impacts of minor construction ancillary facilities as required by Condition A19 of this<br/>approval;</li> </ul>  |                              |  |
|     | <ul> <li>(i) consider any minor amendments to be made to the CEMP, CEMP Sub-plans and Construction<br/>Monitoring Programs that comprise updating or are of an administrative nature, and are<br/>consistent with the terms of this approval and the CEMP, CEMP Sub-plans and Construction<br/>Monitoring Programs approved by the Planning Secretary and, if satisfied such amendment is<br/>necessary, approve the amendment. This does not include any modifications to the terms of this<br/>approval; and</li> </ul>   |                              |  |
|     | <ul> <li>(j) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for<br/>information, an Environmental Representative Monthly Report providing the information set out in<br/>the Environmental Representative Protocol under the heading "Environmental Representative</li> </ul>   |                              |  |

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|          | Monthly Reports". The Environmental Representative Monthly Report must be submitted within seven (7) days following the end of each month for the duration of the ER's engagement for the CSSI.   |  |  |
| A27      | The Proponent must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in Condition A26 (including preparation of the ER monthly report), as well as:  | Communication<br>Strategy<br>Section 3.4 |  |
|          | <ul> <li>(a) the complaints register - to be provided for any complaints received (on any day they are<br/>received); and</li> </ul>  |  |  |
|          | (b) a copy of any assessment carried out by the Proponent of whether proposed work is consistent<br>with the approval (which must be provided to the ER before the commencement of the subject<br>work).  |  |  |
| Acoustic | s Advisor   |  |  |
| A28      | A suitably qualified and experienced Acoustics Advisor (AA), who is independent of the design and construction personnel, must be nominated by the Proponent and engaged for the duration of works.   | Section 3.4                              |  |
|          | The details of the nominated AA must be submitted to the Planning Secretary for approval no later than one (1) month before commencement of works.  |  |  |
|          | The Proponent must cooperate with the AA by:  |  |  |
|          | <ul> <li>(a) providing access to noise and vibration monitoring activities as they take place;</li> <li>(b) providing for review of noise and vibration plans, assessments, monitoring reports, data and analyses undertaken; and</li> <li>(c) considering any recommendations to improve practices and demonstrating, to the satisfaction of the AA, why any recommendation is not adopted.</li> </ul>           |  |  |
| A29      | Notwithstanding Condition A28 above, the Proponent can apply to the Planning Secretary to review and amend the duration of the engagement of the AA:  | Noted                                    |  |
|          | <ul> <li>(a) at no less than 18 months after the commencement of works; and</li> <li>(b) following the installation of at-property construction noise management treatments at all properties that have accepted the offer for treatment and verification of this is provided in a statement endorsed by the AA.</li> <li>In seeking the review, the Proponent must provide to the Planning Secretary:</li> </ul> |  |  |
|          | <ul> <li>(a) details on any non-compliances specific to noise and vibration, including the nature, duration,<br/>location and timing of the non-compliances and the actions implemented to avoid future non-<br/>compliances; and</li> </ul>  |  |  |

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|  | (b) a summary of all noise and vibration complaints received up to the time of submitting the<br>application, including the nature, location and timing of the complaint and the measures<br>implemented to address each complaint.   |  |  |
| A30  | Any activities generating noise in excess of the 'Noise affected' Noise Management Levels derived from the Interim Construction Noise Guideline must not commence until an AA, nominated under Condition A28 of this approval, has been approved by the Planning Secretary. | Appendix B3 - Noise<br>and Vibration Sub-<br>plan and CNVIA for<br>Preliminary<br>Construction Works |  |
| A30 Any activities generating noise in excess of the 'Noise affected' Noise Management Levels derived the Interim Construction Noise Guideline must not commence until an AA, nominated under Conditional Conditio |   | Section 2<br>Section 3.4   |  |

| СоА   | Condition Requirements   | Document Reference |  |
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| <ul> <li>this approval),</li> <li>(iv) review the noise impacts of minor construction ancillary facilities, and</li> <li>(v) prepare and submit to the Planning Secretary and other relevant regulatory agencie information, a Monthly Noise and Vibration Report detailing the AA's actions and de matters for which the AA was responsible in the preceding month. The Monthly Noise Vibration Report must be submitted within seven (7) days following the end of each the duration of the AA's engagement for the CSSI, or as otherwise approved by the Secretary.</li> </ul> |  |                    |  |
| Complian  | ce monitoring and reporting program  |                    |  |
| A32   | No later than one (1) month before the common company of construction a Compliance Monitoring and  |                    |  |
| A33   | Compliance reporting must be carried out in accordance with the Compliance Reporting Post Approval Requirements (Department of Planning and Environment, 2018). The Department must be notified of the commencement dates of construction and operation in the preconstruction and pre-operational compliance reports.   | Refer to A32       |  |
| A34   | The construction compliance report must provide details of any review of, and minor amendments made to, the CEMP (which must be approved by the ER), resulting from construction carried out during the reporting period   | Refer to A32       |  |
| A35   | The Compliance Monitoring and Reporting Program in the form required under Condition A32 of this approval must be implemented for the duration of construction and for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Planning Secretary based on the outcomes of independent audits, Environmental Representative Reports and regular compliance reviews submitted through Compliance Reports. If staged operation is proposed, or operation is commenced of part of the CSSI, the Compliance Monitoring and Reporting Program must be implemented for the relevant period of each stage or part of the CSSI. | Refer to A32       |  |
| Auditing  |  |                    |  |

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| A36        | No later than four (4) weeks before the date notified for the commencement of construction (in the pre-<br>construction compliance report), an Independent Audit Program prepared in accordance with the<br>Independent Audit Requirements (Department of Planning and Environment, 2018) must be submitted to<br>the Planning Secretary for information.   | Section 3.9.3  |  |
| A37        | Independent Audits of the CSSI must be carried out in accordance with:  | Section 3.9.3  |  |
|            | <ul> <li>(a) the Independent Audit Program submitted to the Department under Condition A36 of this approval; and</li> <li>(b) the requirements for an Independent Audit Methodology and Independent Audit Report in the Independent Audit Requirements (Department of Planning and Environment, 2018).</li> </ul>   |  |  |
| A38        | In accordance with the specific requirements in the Independent Audit Requirements (Department of<br>Planning and Environment, 2018), the Proponent must:   | Section 3.9.3  |  |
|            | <ul> <li>(a) review and respond to each Independent Audit Report prepared under Condition A37 of this approval; and</li> <li>(b) submit the response to the Planning Secretary for information.</li> </ul>  |  |  |
| Incident   | notification, reporting and response  |  |  |
| A39        | The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the<br>Proponent becomes aware of an incident. The notification must identify the CSSI (including the<br>application number and the name of the CSSI if it has one), and set out the time, date, location and<br>nature of the incident. It must also describe any consequent non-compliance with this approval. | Section 3.4<br>Section 3.8                           |  |
| A40        | Subsequent notification must be given and reports submitted in accordance with the requirements set out in Appendix A.  | Section 3.8<br>Section 3.9.5<br>Table 11             |  |
| Identifica | ation of workforce and compounds  |  |  |
| A42        | Signage on hoardings surrounding construction ancillary facilities must include the CSSI name and application number  | Appendix A4 Site<br>Establishment<br>Management Plan |  |
| Commun     | ication Strategy  |  |  |
| B1         | A Communication Strategy must be prepared to provide mechanisms to facilitate communication about construction and operation with:  | Communication<br>Strategy                            |  |
|            | <ul> <li>(a) the community (including adjoining affected landowners and businesses, and others directly<br/>impacted by the CSSI), and</li> </ul>   |  |  |

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|     | (b) the relevant councils and government agencies.<br>The Communication Strategy must address who - the Proponent, Independent Appointments and/or<br>construction contractor - will engage with the community and relevant councils and government<br>agencies, how they will engage and the timing of engagements.   |                           |  |
| B2  | <ul> <li>The Communication Strategy must: <ul> <li>(a) identify people, organisations, councils and agencies to be consulted during the design and work phases;</li> <li>(b) set out procedures and mechanisms for the regular distribution of accessible information about or relevant to the CSSI including use of construction hoardings to provide information regarding construction. The information to be distributed must include information regarding current site construction activities, schedules and milestones at each construction site;</li> <li>(c) identify opportunities and make provision for the community to visit construction sites (taking into consideration on-site activities and workplace, health and safety requirements);</li> <li>(d) detail the measures for advising the community in advance of upcoming utility works including the schedule of out-of-hours works as required in Condition E69(a);</li> <li>(e) provide for the formation of issue or location-based community forums that focus on key environmental management issues of concern to the relevant council(s) and government authorities/agencies, as required under the terms of this approval, including procedures for repeated requests for engagement / feedback and nil responses; and</li> <li>(g) set out procedures and mechanisms - <ul> <li>(i) through which the Proponent will respond to enquiries or feedback from the community, and to resolve any issues and mediate any disputes that may arise in relation to the environmental management and delivery of the CSSI, including disputes regarding rectification or compensation.</li> </ul> </li> </ul></li></ul> | Communication<br>Strategy |  |
| B3  | The Communication Strategy must be submitted to the Planning Secretary for approval no later than one (1) month prior to commencement of works   | Communication<br>Strategy |  |
| B4  | Work for the purposes of the CSSI must not commence until the Communication Strategy has been approved by the Planning Secretary   | Communication<br>Strategy |  |
| 35  | The Communication Strategy, as approved by the Planning Secretary, must be implemented for the duration of the works and for 12 months following the completion of construction.   | Communication<br>Strategy |  |

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| B6  | A Complaints Management System must be prepared prior to the commencement of any works in respect of the CSSI and be implemented and maintained for the duration of construction and for a minimum for 12 months following completion of construction   | Communication<br>Strategy                                 |  |
| B7  | The following information must be available to facilitate community enquiries and manage complaints prior to the commencement of works and for 12 months following the completion of construction and appropriately broadcast to the community:   | Communication<br>Strategy                                 |  |
|     | <ul> <li>(a) a 24- hour telephone toll-free number for the registration of complaints and enquiries about the CSSI;</li> <li>(b) a postal address to which written complaints and enquires may be sent;</li> <li>(c) an email address to which electronic complaints and enquiries may be transmitted;</li> <li>(d) a mechanism for community members to make enquiries in common community languages of the area; and</li> <li>(e) a mediation system for complaints unable to be resolved.</li> </ul>   | Section 3.7.3 of the<br>CEMP                              |  |
| B8  | The telephone number, postal address and email address required under Condition B7 of this approval must also be made available on site hoarding at each construction site prior to the commencement of works. This information must also be provided on the website required under Condition B15 of this approval.   | Communication<br>Strategy                                 |  |
| В9  | The Complaints Management System must include a Complaints Register which must be maintained<br>and record information on all complaints received about the CSSI during the carrying out of any works<br>and for a minimum of 12 months following the completion of construction. The Complaints Register must<br>record the:<br>(a) number of complaints received;<br>(b) number of people affected in relation to a complaint; and<br>nature, location and time of the complaint and means by which the complaint was addressed and<br>whether resolution was reached, with or without mediation. | Communication<br>Strategy<br>Section 3.7.3 of the<br>CEMP |  |
| B10 | The Complaints Register must be provided to the Planning Secretary upon request, within the timeframe stated in the request.  | Communication<br>Strategy                                 |  |
| B11 | A Community Complaints Mediator that is independent of the design and construction personnel must be nominated by the Proponent, approved by the Planning Secretary and engaged during all works. The nomination of the Community Complaints Mediator must be submitted to the Planning Secretary for approval no later than one (1) month prior to the commencement of works.  | Communication<br>Strategy                                 |  |

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| B12       | The role of the Community Complaints Mediator is to address any complaint where a member of the public is not satisfied by the Proponent's response. Any member of the public that has lodged a complaint which is registered in the Complaints Management System identified in Condition B6 may ask the Community Complaints Mediator to review the Proponent's response. The application must be submitted in writing and the Community Complaints Mediator must respond within 28 days of the request being made or other specified timeframe agreed between the Community Complaints Mediator and the member of the public.   |   |  |
| B13       | <ul> <li>The Community Complaints Mediator must:</li> <li>(a) review any unresolved disputes if the procedures and mechanisms under Condition B2(g)(iii) do not satisfactorily address complaints; and</li> <li>(b) make recommendations to the Proponent to satisfactorily address complaints, resolve disputes or mitigate against the occurrence of future complaints or disputes.</li> </ul>  | Communication<br>Strategy<br>Section 3.7.3 of the<br>CEMP |  |
| B14       | The Community Complaints Mediator must not act before the Proponent has provided an initial response to a complaint and must not consider issues such as property acquisition, or where other dispute processes are provided for in this approval, or clear government policy and resolution processes are available, or matters which are not within the scope of the CSSI.  | Communication<br>Strategy                                 |  |
| Provision | n of electronic information   |   |  |
| B15       | A website providing information in relation to the CSSI must be established prior to commencement of works and maintained for the duration of works, and for a minimum of 24 months following the completion of construction. The following up-to-date information (excluding confidential, private and commercial information) must be published prior to works commencing and maintained on the website or dedicated pages:   | Communication<br>Strategy                                 |  |
|           | <ul> <li>(a) the current implementation status of the CSSI;</li> <li>(b) a copy of the documents listed in Condition A1 of this approval, and any documentation relating to any modifications made to the CSSI or the terms of this approval;</li> <li>(c) a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved modifications to its terms), and copies of any approval granted by the Minister to a modification of the terms of this approval;</li> <li>(d) a copy of each statutory approval, licence or permit required and obtained in relation to the CSSI; and</li> <li>(e) a copy of each document required to be made publicly available under this approval must be published within 14 days of the finalisation or approval of the relevant document, unless an alternate timeframe is prescribed by another condition of this approval.</li> </ul> |   |  |

| СоА   | Condition Requirements  | Document Reference  |  |
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| Where a condition(s) of this approval requires a document(s) be prepared prior to a work of or operational activity being undertaken, a current copy of the relevant document(s) must lon the website before the work / activity is undertaken. |   |   |  |
| Constructio   | on Environmental Management Plan  |   |  |
| C1  | A Construction Environmental Management Plan (CEMP) must be prepared in accordance with the Department's Guideline for the Preparation of Environmental Management Plans (DIPNR, 2004) to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 will be implemented and achieved during all stages of construction.  | This CEMP<br>Appendix A1  |  |
| C2  | <ul> <li>The CEMP must provide:</li> <li>(a) a description of all activities to be undertaken during construction (including the scheduling of construction);</li> <li>(b) details of environmental policies, guidelines and principles to be followed in construction;</li> <li>(c) a program for ongoing analysis of the key environmental risks arising from the activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to the commencement of construction;</li> <li>(d) details of how the activities described in subsection (a) of this condition will be carried out to: <ul> <li>(i) meet the performance outcomes stated in the documents listed in Condition A1; and</li> <li>(ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition;</li> </ul> </li> <li>(e) an inspection program detailing the activities to be inspected and frequency of inspections;</li> <li>(f) a protocol for managing and reporting any: <ul> <li>(i) incidents; and</li> <li>(ii) non-compliances with this approval and with statutory requirements;</li> </ul> </li> <li>(g) procedures for rectifying any non-compliance with this approval identified during compliance auditing, incident management or at any time during construction;</li> <li>(h) a list of all the CEMP Sub-plans required in respect of construction, as set out in Condition C4. Where staged construction is proposed, the CEMP must also identify which CEMP Sub-plan applies to each of the proposed stages of construction;</li> <li>(i) a odescription of the roles and environmental responsibilities for relevant employees and their relationship with the ER;</li> <li>(j) an outline of the training and induction for employees, including contractors and subcontractors, in relation to environmental and compliance obligations under the terms of this approval;</li> <li>(k) the process for periodic review and update of the CEMP and all associated plans and programs; and</li> </ul> | <ul> <li>(a) Section 1.3,<br/>1.4 and Table 1,<br/>Figures 2 to 4 </li> <li>(b) Appendix A1 </li> <li>Legal and <ul> <li>Compliance Tracking</li> <li>Register</li> </ul> </li> <li>(c) Section 3.2.1, <ul> <li>3.2.2 and Section</li> <li>3.12</li> </ul> </li> <li>(d) Section 3.3.3 <ul> <li>and relevant Subplans</li> </ul> </li> <li>(e) Section 3.9</li> </ul> <li>(f) Sections 3.8 <ul> <li>and 3.10</li> </ul> </li> <li>(g) Section 3.10</li> <li>(h) Table 2</li> <li>(i) Section 3.4</li> |  |

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|     | (l) r   | elevant details from the Site                                 | Establishment Management Plan(s).   | (j) Section 3.6                             |
|     |         |   |   |   |
|     |         |   |   | (I) Sections 2<br>and 4.4 and Sub-<br>plans |
| C3  |         |   |   |   |
| C4  |         | Sub-plans must be prepared i<br>s) as identified for each CEM | n consultation with the relevant government agency<br>P Sub-plan in Table 4.  | (s) and Section 2<br>Table 2                |
|     | Table 4 | : CEMP Sub-plan and releva                                    | ant public authorities  |   |
|     |         | Required CEMP Sub-plar  | Relevant government agencies and<br>council(s) to be consulted for each CEMP<br>Sub-plan                                    |   |
|     | (a)     | Traffic and Access  | Relevant council(s)   |   |
|     | (b)     | Noise and Vibration   | NSW Health, relevant council(s) and Sydney<br>Water (where vibration has the potential to<br>impact on Sydney Water assets) |   |
|     | (C)     | Flora and Fauna   | EES and relevant council(s)   |   |
|     | (d)     | Air Quality and Odour   | NSW Health and relevant council(s)  |   |
|     | (e)     | Soil and Surface Water  | DPIE Water, EES, Sydney Water (if Sydney<br>Water's assets are affected) and relevant<br>council(s)                         |   |
|     | (f)     | Groundwater   | DPIE Water and Sydney Water (where it is<br>proposed to discharge groundwater into Sydney<br>Water assets)                  |   |
|     | (g)     | Contamination   | Relevant council(s)   |   |

| СоА | Condition Requirements  |                           |                             |                                    | Document Reference           |
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|     | (h)   | Waste                     | Relevant council(s)         |                                    |                              |
|     | (i)   | Leachate and Landfill Gas | EPA and relevant council(s) |                                    |                              |
| C5  | The CEMP Sub-plans must state how:  |                           |                             |                                    | Appendices B1 to B9          |
|     | <ul> <li>(a) the environmental performance outcomes identified in the documents listed in Condition A1 as<br/>modified by these conditions will be achieved;</li> </ul>   |                           |                             |                                    |                              |
|     | <ul> <li>(b) the mitigation measures identified in the documents listed in Condition A1 as modified by these<br/>conditions will be implemented;</li> </ul>   |                           |                             |                                    |                              |
|     | (c) the relevant terms of this approval will be complied with; and  |                           |                             |                                    |                              |
|     | (d) issues requiring management during construction (including cumulative impacts), as identified<br>through ongoing environmental risk analysis, will be managed.  |                           |                             |                                    |                              |
| C6  | The Contamination CEMP Sub-plan must include, but not be limited to:  |                           |                             |                                    | Appendix B8<br>Contamination |
|     | <ul> <li>(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;</li> <li>(b) measures for the handling, treatment and management of hazardous and contaminated soils and materials including measures to manage and/or minimise worker and public health and safety with regards to exposure to contamination; and</li> <li>(c) a description of how the effectiveness of the actions and measures for managing contamination impacts would be monitored during the proposed works, clearly indicating how often this monitoring would be undertaken, the locations where monitoring would take place, and how the results of the monitoring would be recorded and reported.</li> <li>The Contamination CEMP Sub-plan must be reviewed and considered satisfactory by an EPA accredited site auditor. The Contamination regarding the sub-plan and any Interim Audit Advice prepared by the EPA accredited site auditor regarding the sub-plan must be submitted to the Planning Secretary prior to undertaking any works which may result in the disturbance of contaminated soil, land or materials.</li> <li>Nothing in this condition prevents the Proponent from preparing separate Contamination CEMP Sub-plans for specific areas of work, rather than a single plan which addresses the entire CSSI.</li> </ul> |                           |                             | CEMP Sub-plan                      |                              |
| C9  | The Waste CEMP Sub-plan must include, but not be limited to:<br>(a) details of the types of waste to be generated by the CSSI;<br>(b) details of the waste tracking register required by Condition 0, including methods of record   |                           |                             | Appendix B9 Waste<br>CEMP Sub-plan |                              |

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|          | (c) a  | ping; and<br>a process for verifying that all wast<br>disposed of in a lawful manner.  | e is being managed, transported, reused, i  | ecycled or                                     |                                  |
| C10      | approva  | I no later than one (1) month prior to   | the ER and then submitted to the Planning<br>the commencement of the  | Secretary for                                  | Section 2<br>Appendices B1 to B9 |
|          | construc   | tion activities to which they apply.   |   |  |                                  |
| C11      |  | he <b>CEMP Sub-plans</b> may be subm<br>mission of the <b>CEMP</b> .   | itted to the Planning Secretary along with, or  | subsequent to,                                 | Section 2<br>Appendices B1 to B9 |
| C12      | construc<br>and <b>CEN</b><br>approve<br>staged, 6 | tion activities to which they apply ha<br><b>IP Sub-plans</b> , as approved by the<br>d by the <b>ER</b> , must be implemented<br>construction of a stage must not cor | <b>CEMP</b> and all relevant <b>CEMP Sub-plans</b> for<br>ave been approved by the Planning Secreta<br>Planning Secretary, including any minor am-<br>for the duration of construction. Where cons<br>mmence until the relevant <b>CEMP</b> and <b>CEMP</b><br>nd approved by the Planning Secretary. | ry. The <b>CEMP</b><br>endments<br>truction is | Section 1.1<br>Section 1.2       |
| Construc | ction Monito                                       | ring Programs  |   |  | 1                                |
| C13      | enable o<br>The Cor<br>governr                     | comparison of the actual construnstruction Monitoring Programs must  | out in Table 5 must be prepared and impl<br>ction performance against the predicted<br>at be prepared in consultation with the re<br>entified for each Construction Monitoring P<br>evant public authorities  | performance.<br>levant                         | Section 2                        |
|          |  | Required Construction<br>Monitoring Programs   | Relevant government agencies to<br>be consulted for each Construction<br>Monitoring Program   |  |                                  |
|          | (a)  | Surface Water Monitoring<br>Program  | DPIE Water, Sydney Water (if any<br>Sydney Water assets are affected),<br>EPA   |  |                                  |
|          | (b)  | Groundwater Monitoring<br>Program  | DPIE Water  |  |                                  |

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|     | (c)  | Noise and Vibration Monitoring<br>Program  | EPA  |                    |
|     | (d)  | Blast Monitoring Program   | EPA  |                    |
|     | (e)  | Air Quality Monitoring<br>Program  | EPA  |                    |
|     | (f)  | Flora and Fauna Monitoring<br>Program  | EES  |                    |
|     | (f)  | Leachate and Landfill Gas<br>Monitoring Program  | EPA  |                    |
|     | (g)  | Wetland Monitoring Program   | EES  |                    |
|     | (b) deta<br>(c) deta<br>(d) the p<br>(e) the f<br>(f) the k<br>(g) the r<br>timin<br>ager<br>(h) deta<br>(i) proce<br>indic<br>(j) any c | ng and frequency for reporting the re-<br>ncies;<br>ils of the methods that will be used to<br>edures to identify and implement addi-<br>cate adverse impacts or levels above<br>consultation to be undertaken in relati | taken;<br>bred;<br>esults against relevant criteria, including detain<br>esults to the Planning Secretary and relevant<br>of analyse the monitoring data;<br>tional mitigation measures where results of m<br>relevant criteria;<br>on to the monitoring programs; and | t government       |
|     | · , ,  | ,  | Conditions C15 to C18, as relevant.  |                    |
| C16 | (a) nois<br>the  |  | <b>am</b> must include:<br>ed representative sensitive receiver location<br>Arncliffe and Rockdale to confirm constructi   |                    |

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|     | <ul> <li>(b) for the purposes of (a), noise monitoring during the day, evening and night-time periods must be undertaken within the first month of operation of the construction ancillary facilities and must cover the range of activities (excluding activities associated with site establishment) being undertaken at the sites; and</li> <li>(c) provision of real time noise and vibration monitoring data. The data must be readily available to the construction team, Proponent, ER and AA. The Department and EPA must be provided with access to the real-time monitoring data, on request.</li> </ul> |   |
| C19 | The <b>Construction Monitoring Programs</b> must be developed in consultation with the relevant government agencies as identified in <b>Condition C13</b> of this approval, and must identify information, including monitoring parameters, requested by a relevant agency to be included in a monitoring program.   | Appendix B3 - Noise<br>and Vibration Sub-<br>plan and CNVIA for<br>Preliminary<br>Construction Works<br>and Appendix B7- Air<br>Quality and Odour<br>CEMP Sub-plan                    |
| C20 | The Construction Monitoring Programs must be endorsed by the ER and then submitted to the Planning Secretary for approval at least one (1) month prior to the commencement of construction.  | Appendix B3 - Noise<br>and Vibration Sub-<br>plan and CNVIA for<br>Preliminary<br>Construction Works<br>and Appendix B7- Air<br>Quality and Odour<br>CEMP Sub-plan                    |
| C21 | Construction, which is required to be monitored under the Construction Monitoring Programs, must not commence until the Planning Secretary has approved all of the required Construction Monitoring Programs and all relevant baseline data for the specific construction activity has been collected.   | Staging Report,<br>Appendix B3 - Noise<br>and Vibration Sub-<br>plan and CNVIA for<br>Preliminary<br>Construction Works<br>and Appendix B7- Air<br>Quality and Odour<br>CEMP Sub-plan |
| C22 | The Construction Monitoring Programs, as approved by the Planning Secretary and including any minor amendments approved by the ER, must be implemented for the duration of construction and for any  | Appendix B3 - Noise<br>and Vibration Sub-<br>plan and CNVIA for   |

| СоА        | Condition Requirements   | Document Reference  |
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|            | longer period set out in the monitoring program or specified by the Planning Secretary, whichever is the greater.  | Preliminary<br>Construction Works<br>and Appendix B7- Air<br>Quality and Odour<br>CEMP Sub-plan               |
| C23        | The results of the Construction Monitoring Programs must be made publicly available in the form of a<br>Construction Monitoring Report at the frequency identified in the relevant Construction Monitoring<br>Program.<br>Note: Where a relevant CEMP Sub-plan exists, the relevant Construction Monitoring Program may be   | Appendix B3 - Noise<br>and Vibration Sub-<br>plan and CNVIA for<br>Preliminary                                |
|            | incorporated into that CEMP Sub-plan.  | Construction Works<br>and Appendix B7- Air<br>Quality and Odour<br>CEMP Sub-plan                              |
| Air Qualit | y and Odour  |   |
| E1         | Measures must be implemented to minimise and manage the emission of dust, odour and other air pollutants during construction and operation.  | Appendix B7 - Air<br>Quality and Odour<br>CEMP Sub-plan   |
| Biodivers  | ity  |   |
| E38        | Any work associated with the CSSI must limit the clearing of native vegetation to the greatest extent practicable.   | Appendix B2 – Flora and<br>Fauna Management<br>Procedure  |
| E39        | Impacts to plant community types must not exceed those identified in the documents listed in <b>Condition</b><br>A1, unless otherwise approved by the Planning Secretary. In requesting the Planning Secretary's<br>approval, the Proponent must provide to the Planning Secretary an assessment of the additional<br>impact(s) to plant community types and an updated ecosystem and/or species credit requirement under<br><b>Condition E40</b> , if required. | Appendix A2 - Aspects<br>and Impacts Register and<br>Appendix B2 - Flora and<br>Fauna Management<br>Procedure |
| E42        | Construction must demonstrate how:   | Appendix B2 – Flora   |
|            | <ul> <li>(a) noxious weeds are managed; and</li> <li>(b) contamination by pathogens, non-indigenous regenerative plant material and seeds can be prevented by the movement of all tools, vehicles, machinery and personnel.</li> <li>Note: These additional requirements must be addressed in the Flora and Fauna CEMP Sub-plan required under Condition C4.</li> </ul>  | and Fauna<br>Management<br>Procedure  |

| СоА         | Condition Requirements  | Document Reference   |  |  |  |
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| Pre-clearin | Pre-clearing surveys  |  |  |  |  |
| E43         | Before the removal or clearing of any vegetation, or the demolition of structures identified as potential roosting sites for microbats commences, pre-clearing/demolition inspections for the threatened species must be undertaken. The inspections, and any subsequent relocation of fauna and associated management/offset measures, must be undertaken under the guidance of a suitably qualified and experienced ecologist. Survey and relocation methodologies and management/offset measures must be included in the Flora and Fauna CEMP Sub-plan required under Condition C4 and the Site Establishment Management Plan required by Condition A17. | Appendix B2 – Flora<br>and Fauna<br>Management<br>Procedure                        |  |  |  |
| Green and   | I Golden Bell Frog  |  |  |  |  |
| E44         | The Proponent must prepare a <b>Green and Golden Bell Frog Plan of Management</b> . The Plan must be approved by the Planning Secretary prior to commencing construction at the Arncliffe construction compound. The Plan must be developed by a suitably qualified and experienced frog specialist, in consultation with EES.  | Green and Golden<br>Bell Frog Plan of<br>Management                                |  |  |  |
|             | The Plan must detail:   |  |  |  |  |
|             | <ul> <li>(a) the on-site management and mitigation measures for limiting impacts on Green and Golden Bell Frogs;</li> <li>(b) the monitoring that would be undertaken during construction to ascertain the effectiveness of the on-site management and mitigation measures; and</li> <li>(c) measures to re-instate habitat affected by the Arncliffe construction compound within the returned open space post construction.</li> </ul>  |  |  |  |  |
| Heritage    |   |  |  |  |  |
| E57         | The Proponent must prepare and implement an interpretive strategy to recognise the prior presence of<br>Aboriginal people, within and adjoining the project area and in particular Patmore Swamp and Kings<br>Wetland. The strategy must be prepared in accordance with relevant NSW Government guidelines and<br>in consultation with relevant Aboriginal Stakeholders including the local Aboriginal community through<br>an experienced Aboriginal facilitator.  | Design Management<br>Plan  |  |  |  |
|             | The outcomes of the Strategy must be incorporated into the UDLP required under by <b>Condition E154</b> .   |  |  |  |  |
| E59         | Before conducting acoustic treatment at any building listed as a heritage item within the relevant LEP, the advice of a suitably qualified and experienced built heritage expert must be obtained and implemented to ensure any such work does not have an adverse impact on the heritage significance of the item.   | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary |  |  |  |

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|           |  | Construction Works  |
| E60       | An <b>Unexpected Heritage Finds and Human Remains Procedure</b> must be prepared and implemented to manage unexpected heritage finds in accordance with any guidelines and standards prepared by the Heritage Council of NSW or EES.   | Appendix B6 –<br>Heritage<br>Management Plan  |
|           | Note: Human remains that are found unexpectedly during the carrying out of works may be under the jurisdiction of the NSW State Coroner and must be reported to the NSW Police immediately.  |   |
| Noise and | d Vibration  |   |
| Land Use  | e Survey   |   |
| E61       | A detailed land use survey must be undertaken to confirm sensitive receivers (including critical working areas such as operating theatres and precision laboratories) potentially exposed to construction noise and vibration, 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 works which generate construction or operational noise, vibration or ground-borne noise in that area. The results of the survey must be included in the <b>Noise and Vibration CEMP Sub-plan</b> required by <b>Condition C4</b> . | Appendix B3 – Noise and<br>Vibration CEMP Sub-plar<br>and CNVIA for<br>Preliminary Construction<br>Works                  |
| Work Hou  | Irs  |   |
| E62       | <ul> <li>Works (except for tunnelling (excluding cut and cover tunnelling)) must only be undertaken during the following standard construction hours:</li> <li>(a) 7:00 am to 6:00 pm Mondays to Fridays, inclusive;</li> <li>(b) 8:00 am to 1:00 pm Saturdays; and</li> <li>(c) at no time on Sundays or public holidays.</li> </ul>  | Section 3.6.4<br>Appendix B3 – Noise and<br>Vibration CEMP Sub-plan<br>and CNVIA for<br>Preliminary Construction<br>Works |
| E63       | Notwithstanding <b>Condition E62</b> , works may be undertaken between 1:00 pm to 6:00 pm on Saturday.   | Section 3.6.4   |
| Highly No | bise Intensive Works   |   |

| СоА          | Condition Requirements  | Document Reference  |  |
|--------------|---|---|--|
| E65          | Except as permitted by an EPL, highly noise intensive works that result in an exceedance of the applicable NML at the same receiver must only be undertaken:  | Section 3.6.4<br>Appendix B3 – Noise  |  |
|              | <ul> <li>(a) between the hours of 8:00 am to 6:00 pm Monday to Friday;</li> <li>(b) between the hours of 8:00 am to 1:00 pm Saturday; and</li> <li>(c) in continuous blocks not exceeding three (3) hours each with a minimum respite from those activities or works of not less than one (1) hour.</li> <li>For the purposes of this condition, 'continuous' includes any period during which there is less than a one (1) hour respite period between ceasing and recommencing any of the work.</li> </ul>  | and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works   |  |
| Variation to | Works Hours   |   |  |
| E66          | <ul> <li>Notwithstanding Conditions E62 to E65, works may be undertaken outside the hours specified in the following circumstances:</li> <li>(a) for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or</li> <li>(b) where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm; or</li> <li>(c) where different construction hours are permitted or required under an EPL in force in respect of the CSSI; or</li> <li>(d) Works which are not subject to an EPL that are approved under an Out-of-Hours Work Protocol required by Condition E70; or</li> <li>(e) construction that causes Laeq(15 minute) noise levels: <ul> <li>(i) no more than 5 Db(A) above the rating background level at any residence in accordance with the <i>Interim Construction Noise Guideline</i> (DECC, 2009), and</li> <li>(ii) no more than the 'Noise affected' noise management levels specified in Table 3 of the <i>Interim Construction Noise Guideline</i> (DECC, 2009) at other sensitive land uses, and</li> <li>(iii) continuous or impulsive vibration values, measured at the most affected residence are no more than the maximum values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration values measured at the most affected residence are no more than the maximum values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).</li> </ul> </li> </ul> | Section 3.6.4<br>Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |  |

| СоА       | Condition Requirements  | Document Reference   |
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|           | Note: Section 5.24(1)© of the EP&A Act requires that an EPL be substantially consistent with this approval. Out-of-Hours works considered under <b>Conditions</b> ©(c) and (d) must be justified and include an assessment of the potential impacts and effectiveness of the proposed mitigation measures.  |  |
| E67       | On becoming aware of the need for emergency works in accordance with <b>Condition E66(b)</b> , the Proponent must notify the <b>AA</b> , the <b>ER</b> , the Planning Secretary and the EPA of the reasons for such work. The Proponent must use best endeavours to notify all noise and/or vibration affected sensitive receivers of the likely impact and duration of those works.  | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
| Out-of-ho | ours work scheduling and respite  |  |
| E68       | <ul> <li>Out-of-hours works that are regulated by an EPL as per Conditi©E66(c) or through the Out-of-Hours Work Protocol as per Condition E70 include:</li> <li>(a) works which could result in a high risk to construction personnel or public safety, based on a risk assessment carried out in accordance with AS/NZS ISO 31000:2009 "<i>Risk Management – Principles and Guidelines</i>"; or</li> <li>(b) where the relevant road network operator has advised the Proponent in writing that carrying out the works and activities could result in a high risk to road network operational performance; or</li> <li>(c) where the relevant utility service operator has advised the Proponent in writing that carrying out the works and activities could result in a high risk to the operation and integrity of the utility network; or</li> <li>(d) where the TfNSW Transport Management Centre (or other road authority) has advised the Proponent in writing that a road occupancy licence is required and will not be issued for the works or activities during the hours specified in Condition E62 and Condition E63.</li> <li>Note: Other out-of-hours works can be undertaken with the approval of an EPL, or through the project's Out-of-Hours Work Protocol for works not subject to a EPL.</li> </ul> | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
| E69       | <ul> <li>In order to undertake out-of-hours work under Condition E68, the Proponent must identify appropriate respite periods for the out-of-hours works in consultation with the community at each affected location on a regular basis. This consultation must include (but not be limited to) providing the community with: <ul> <li>(a) a progressive schedule for periods no less than three (3) months, of likely out-of-hours work;</li> <li>(b) the potential works, location and duration;</li> <li>(c) the noise characteristics and likely noise levels of the works; and</li> <li>(d) likely mitigation and management measures which aim to achieve the relevant noise management level (including the circumstances of when a respite or relocation offer will be available and details about how the affected community can access these offers).</li> </ul> </li> <li>The outcomes of the community consultation, the identified respite periods and the scheduling of the likely out-of-hour works must be provided to the AA, EPA and the Planning Secretary.</li> </ul>  | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |

| СоА      | Condition Requirements   | Document Reference   |
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| Out-of-h | nours Work Protocol – Works not subject to an EPL  |  |
| E70      | An <b>Out-of-Hours Work Protocol</b> must be prepared to identify a process for the consideration, management and approval of works which are outside the hours defined in <b>Conditions E62</b> and <b>E63</b> and that are <u>not</u> subject to an EPL. The Protocol must be approved by the Planning Secretary prior to commencement of the works. The Protocol must be prepared in consultation with the EPA and <b>AA</b> . The Protocol must identify activities in terms of their risk of adverse impacts on sensitive receivers (low, medium, high) and include:  | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
|          | <ul> <li>(a) a process for the consideration of out-of-hours works against the relevant noise and vibration criteria, including the determination of low, medium and high-risk activities;</li> <li>(b) a process for selecting and implementing mitigation measures for residual impacts in consultation with the community at each affected location, including respite periods consistent with the requirement of <b>Condition E69</b>. The measures must take into account the predicted noise levels and the likely frequency and duration that sensitive receivers would be exposed to residual impacts, including the number of noise awakening events;</li> <li>(c) procedures to facilitate the coordination with other out-of-hours works, including those approved by an EPL or undertaken by a third party, to ensure appropriate respite is provided;</li> <li>(d) an approval process that considers the risk of works, proposed mitigation and management, and coordination, including where: <ul> <li>i. the ER and AA review all proposed out-of-hours activities and confirm their risk levels,</li> <li>ii. low risk activities can be approved by the ER in consultation with the AA, and</li> <li>iii. medium and high risk activities are approved by the Planning Secretary.</li> </ul> </li> </ul> | 1  |
| Out-of-h | notification to the Planning Secretary of approved low risk out-of-hours works.  |  |
| E71      | All works undertaken for the delivery of the CSSI, including those undertaken by third parties (such as utility relocations), must be coordinated to ensure respite periods are provided. The Proponent must:<br>(a) reschedule any works to provide respite to impacted noise sensitive receivers so that the respite   | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA  |
|          | <ul> <li>(a) rescribedule any works to provide respite to impacted hoise sensitive receivers so that the respite is achieved in accordance with <b>Condition E69</b>; or</li> <li>(b) consider the provision of alternative respite or mitigation to impacted noise sensitive receivers; and</li> </ul>  | for Preliminary<br>Construction Works  |
|          | (c) provide documentary evidence to the AA in support of any decision made by the Proponent in<br>relation to respite or mitigation.   |  |
| Constru  | ction Noise and Vibration - General  |  |

| СоА | Condition Requirements  | Document Reference   |
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| E72 | Mitigation measures must be implemented with the aim of achieving the following construction noise management levels and vibration criteria:  | Appendix B3 - Noise<br>and Vibration CEMP  |
|     | (a) construction 'Noise affected' noise management levels established using the <i>Interim Construction Noise Guideline</i> (DECC, 2009);   | Sub-plan and CNVIA<br>for Preliminary  |
|     | (b) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure);   | Construction Works   |
|     | <ul> <li>(c) Australian Standard A– 2187.2 - 2006 "Explosives - Storage–and Use - Use of Explosives";</li> <li>(d) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and</li> </ul>   |  |
|     | <ul> <li>(e) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage).</li> <li>(f) residential ground-borne noise I-vels of -</li> </ul>   |  |
|     | i. evening (6:00 pm to 10:00 pm) — internal LAeq(15 minUTe): 40 dB(A), and<br>ii. night (10:00 pm to 7:00 am) — internal LAeq(15 minUTe): 35 dB(A)  |  |
|     | Note: The Interim Construction Noise Guideline identifies 'particularly annoying' activities that require the addition of 5 dB(A) to the predicted level prior to comparing to the construction Noise Management Level.   |  |
| E73 | <b>Construction Noise and Vibration Impact Statements (CNVIS)</b> must be prepared for construction ancillary facility(ies) before any works that may exceed the noise management levels, vibration criteria and/or ground-borne noise levels specified in <b>Condition E72</b> commence. <b>CNVIS</b> must include specific mitigation measures identified through consultation with affected sensitive receivers and the mitigation measures must be implemented for the duration of the works.   | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
| E74 | Noise generating works near community, religious, educational institutions and noise and vibration-<br>sensitive businesses and critical working areas (such as theatres, laboratories and operating theatres)<br>resulting in noise levels above the NMLs must not be timetabled within sensitive periods, unless other<br>reasonable arrangements with the affected institutions are made at no cost to the affected institution.   | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
| E75 | Owners and occupiers of properties at risk of exceeding the screening criteria for cosmetic damage must be notified prior to works that generate vibration commences near those properties. If the potential exceedance is to occur more than once over a period of 24 hours, owners and occupiers are to be provided a schedule of potential exceedances on a monthly basis for the duration of the potential exceedances, unless otherwise agreed by the owner and occupier. These properties must be identified and considered in the <b>Noise and Vibration CEMP Sub-plan</b> required by <b>Condition C4</b> and the | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
|     | Communication Strategy required by Condition B1.  |  |

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| Construc | ction Vibration Mitigation - Heritage  |  |
| E76      | The Proponent must conduct vibration testing prior to and during vibration generating activities that have<br>the potential to impact on heritage items to identify minimum working distances and/or any changes<br>required to plant and equipment to prevent damage on built heritage items. These measures must be<br>implemented where testing indicates the potential for vibration to damage built heritage items. | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
| Construc | ction Noise Mitigation – Out-of-hours works  |  |
| E78      | At-receiver noise mitigation in the form of at-property treatment must be offered to the landowners of the residential properties (including long-term accommodation providers) identified in <b>Appendix C</b> for habitable living spaces, unless other mitigation or management measures are agreed to by the landowner. Mitigation must be offered prior to out-of-hours works commencing.                           | At-property Noise<br>Mitigation Report<br>Appendix B3 - Noise<br>and Vibration CEMP                      |
|          | The at-property construction noise mitigation treatments must be installed prior to the commencement of any out-of-hours works that may cause sleep disturbance (as described in NSW Road Noise Policy (DECCW, 2011)), unless otherwise approved by the Planning Secretary.  | Sub-plan and CNVIA<br>for Preliminary<br>Construction Works  |
|          | The Proponent must prepare a report which details the range of at-property noise mitigation treatments to be offered and the procedures and terms of implementing such treatments. The report must be endorsed by the <b>AA</b> and submitted to the Planning Secretary for approval at least one month prior to making any offers to the landowners of the properties identified in <b>Appendix C</b> .                 |  |
|          | This requirement does not apply if the sensitive receiver has been provided with noise mitigation under the TfNSW (RMS) Noise Abatement Program or the <i>State Environment Planning Policy (Infrastructure) 2007</i> (clause 102(3)). The adequacy of at-property treatments will be reviewed where previous treatments have been installed as part of other SSI or CSSI projects.                                      |  |
| E79      | Landowners whose residential properties are eligible to receive at-property treatment under <b>Condition E78</b> must be advised of the range of options that can be installed at or in their property and given a choice as to which of these they agree to have installed.   | At-property Noise<br>Mitigation Report   |
| E80      | The offer for at-property treatment in accordance with <b>Condition E78</b> does not expire until the out-of-<br>hours work affecting that property are completed, even if the landowner initially refuses the offer.  | At-property Noise<br>Mitigation Report   |
| E81      | The implementation of <b>Conditions E78</b> and <b>E85</b> does not preclude the application of other noise and vibration mitigation and management measures including temporary alternative accommodation specified under <b>Condition E82</b> .  | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary                       |

| СоА         | Condition Requirements   | Document Reference   |
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|             |  | Construction Works   |
| E82         | <ul> <li>Temporary alternative accommodation is to be offered/ made available to residents affected by out-of-hours works (including where utility works are being undertaken for the project) where the construction noise levels, between:</li> <li>(a) 10:00 pm and 7:00 am, Monday to Friday;</li> <li>(b) 10:00 pm to 8:00 am, Saturday; and</li> <li>(c) 6:00 pm to 7:00 am, Sunday and public holidays, are predicted to exceed the nML +25 dB(A) or are greater THan 75 dBA (LAeq(15 min)), whichever is the lesser and the impact is planned to occur for more than two (2) nights over a seven (7) day period. The noise level is to be reduCEd by 5 dB where the noise contains annoying characteristics and increasED by 10 dB if the property has been treated or offered at-property noise treatment.</li> </ul> | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
|             | The noise levels and duration requirements identified in this condition may be changed through an EPL applying to the CSSI.  |  |
| Workplace   | e health and safety for nearby workers   |  |
| E83         | At no time can noise generated by construction exceed the National Standard for exposure to noise in the occupational environment of an eight-hour (8 hr) equivalent continuous A-weighted sound pressure level of LAeq,8H of 85 dB(A) for any employee working at a location near the CSSI.   | Appendix B3 - Noise<br>and Vibration CEMP<br>Sub-plan and CNVIA<br>for Preliminary<br>Construction Works |
| Property, I | anduse and socio-economic impacts  |  |
| E92         | The Proponent must identify the utilities and services (hereafter "services") potentially affected by construction to determine requirements for diversion, protection and/or support. Alterations to services must be determined by negotiation between the Proponent and the service providers. The Proponent, in consultation with service providers, must ensure that disruptions to services resulting from the activity are avoided where possible, and where unavoidable customers are advised in accordance with a process to be documented in the <b>Communication Strategy</b> required under <b>Condition B1</b> .  | Communication<br>Strategy  |
| Condition   | survey   |  |
| E98         | The Proponent must offer pre-construction surveys and must undertake and prepare <b>Pre-construction Condition Survey Reports</b> where the offer is accepted, on the current condition of surface and sub-surface structures identified as at risk from settlement or vibration by the geotechnical model described in <b>Condition E93</b> or as directed by the <b>E98</b> established under <b>Condition E102</b> . The  | Communication<br>Strategy  |

| СоА       | Condition Requirements   | Document Reference  |
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|           | <b>Pre-construction Condition Survey Reports</b> 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 works.  |   |
| E102      | The Proponent must establish an <b>Independent Property Impact Assessment Panel (IPIAP</b> ) before works that have the potential to result in property impacts commence. The <b>IPIAP</b> must comprise geotechnical and engineering experts independent of the design and construction team. The <b>IPIAP</b> will be responsible for independently reviewing <b>Pre-</b> and <b>Post-construction Condition Survey Report</b> templates prepared under <b>Conditions E98</b> and <b>E100</b> , any <b>Pre-</b> and <b>Post-construction Condition Survey Report</b> swhere there is a dispute, and the resolution of property damage disputes, and the establishment of ongoing settlement and vibration monitoring requirements. The Planning Secretary must be notified of the members of the <b>IPIAP</b> prior to the commencement of any works which may potentially result in property impacts. | Communication<br>Strategy                                 |
| Public an | d Open Space Planning  | <u> </u>  |
| E103      | A <b>Recreation Needs Analysis (RNA)</b> to inform the future recreational requirements of the community<br>in respect of the Bicentennial Park and Scarborough Park North Precinct must be prepared. The RNA<br>must be prepared in consultation with the relevant council, park user group(s) and the community. The<br>scope and outcomes of the <b>RNA</b> must consider the requirements of the relevant council.   | Recreation Needs<br>Analysis                              |
| E104      | A <b>Recreation Facilities Replacement Plan (RFRP)</b> , identifying impacts to recreational and community facilities in the Bicentennial Park and Scarborough Park North Precinct during construction and operation must be prepared. The <b>RFRP</b> must identify the facilities that would replace impacted facilities.  | Addressed in UDLP.<br>Refer to Design<br>Management Plan. |
|           | Nothing in this condition prevents the Proponent from preparing individual <b>RFRPs</b> for separate recreational facilities.  |   |

| СоА      | Condition Requirements   | Document Reference  |
|----------|--|---|
| E105     | The facilities identified in the <b>RFRP</b> must consider the functionality of impacted facilities with consideration of, but not limited to, the <b>RNA</b> and capacity and accessibility from increased demand due to consolidation and intensification of uses (including footpaths and car parking).   | Addressed in UDLP.<br>Refer to Design<br>Management Plan.                                   |
| E106     | Facilities outlined in the <b>RFRP</b> that offset impacts on existing facilities affected by works must be completed, functional and open to the community prior to impacting the existing facilities, or by such other time as may be approved by the Planning Secretary.  | Addressed in UDLP.<br>Refer to Design<br>Management Plan.                                   |
| E107     | The <b>RFRP</b> must be prepared in consultation with the relevant council, user group(s) and the community.<br>The <b>RFRP</b> must be approved by the Planning Secretary prior to construction of the relevant replacement<br>recreational facilities. All impacted existing facilities that are proposed to be reinstated following<br>completion of construction, as outlined in the <b>RFRP</b> , must be completed and open within 12 months of<br>the project operating, or by such other time as may be approved by the Planning Secretary.  | Addressed in UDLP.<br>Refer to Design<br>Management Plan.                                   |
| E109     | Construction must be staged to maximise progressive public access and use of the reinstated Rockdale<br>Bicentennial Park and other public spaces.   | N/A. This CEMP<br>applies to preliminary<br>construction and<br>commencement<br>activities. |
| Soils    |  | ·   |
| E111     | All reasonably practicable erosion and sediment controls must be installed and appropriately maintained to minimise water pollution. When implementing such controls, any relevant guidance in the <i>Managing Urban Stormwater</i> series must be considered.   | Appendix B4 - Soil and<br>Surface Water<br>Management Procedure                             |
| Contamin | ated Sites   | 1   |
| E112     | Prior to the commencement of any works that would result in the disturbance of potential or contaminated land and/or soil, a <b>Site Contamination Report</b> must be prepared by a suitably qualified and experienced person, in accordance with guidelines made or approved under the <i>Contaminated Land Management Act 1997</i> (NSW). The <b>Site Contamination Report</b> must document the outcomes of Stage 1 and Stage 2 contamination assessments of land upon which the CSSI is to be carried out, or land associated with the CSSI, that is suspected, or known, to be contaminated. The report must identify the nature and extent of any existing remediation (such as impervious surface cappings). The <b>Site Contamination Report</b> must detail, where relevant, whether the land is suitable (for the intended | Appendix B8 -<br>Contamination CEMP<br>Sub-plan   |

| СоА  | Condition Requirements  | Document Reference                              |
|------|---|---|
|      | final land use) or can be made suitable through remediation and/or outline the potential contamination risks from the CSSI to human health and receiving waterways.   |   |
|      | Nothing in this condition prevents the Proponent from preparing individual <b>Site Contamination</b><br><b>Reports</b> for separate sites.  |   |
|      | Measures to identify, handle and manage potential contaminated soils, materials and groundwater must be identified in the Site Contamination Report and incorporated into the <b>Contamination CEMP Sub-plan</b> (prepared under <b>Condition C4</b> ), unless otherwise approved by the Planning Secretary.  |   |
|      | Should remediation be required to make land suitable for the final intended land use, a <b>Remediation</b><br><b>Action Plan</b> must be prepared and implemented and submitted to the Planning Secretary for<br>information prior to undertaking remediation. The plan must detail how the environmental and human<br>health risks will be managed during the disturbance, remediation and/or removal of contaminated soil or<br>groundwater.  |   |
|      | If remediation is required, a <b>Section A Site Audit Statement</b> and <b>Site Audit Report</b> , must be prepared by a Site Auditor accredited by EPA under the <i>Contaminated Land Management Act 1997 (NSW)</i> .  |   |
|      | Nothing in this condition prevents the Proponent from engaging the Site Auditor to prepare Site Audit Statements for individual work sites.   |   |
|      | A Section A Site Audit Statement and its accompanying Section A Site Audit Report, which state<br>that the contaminated land disturbed by the works has been made suitable for the intended land use,<br>must be submitted to the Planning Secretary and relevant council after remediation. Contaminated land<br>must not be used for the purpose approved under the terms of this approval until a Section A Site<br>Audit Statement is obtained which states that the land is suitable for that purpose and any conditions<br>on the Section A Site Audit Statement have been complied with. |   |
| E113 | An <b>Unexpected Contaminated Land and Asbestos Finds Procedure</b> must be prepared prior to the commencement of construction and must be followed should unexpected contaminated land or asbestos (or suspected contaminated land or asbestos) be excavated or otherwise discovered during construction.  | Appendix B8 -<br>Contamination CEMP<br>Sub-plan |
| E114 | The <b>Unexpected Contaminated Land and Asbestos Finds Procedure</b> must be implemented throughout construction.   | Appendix B8 -<br>Contamination CEMP<br>Sub-plan |

| СоА        | Condition Requirements  | Document Reference   |  |
|------------|---|--|--|
| E117       | Safe pedestrian and cyclist access must be maintained around work sites during construction. In circumstances where pedestrian and cyclist access is restricted or removed due to construction activities, an alternate route which complies with the relevant standards must be provided and signposted prior to the restriction or removal of the relevant pedestrian and cyclist access.   | Access Management  |  |
| E118       | During construction, where bus stops are required to be temporarily closed or relocated, such closure must not occur until relocated bus stops are functioning, have similar capacity and amenity and are relocated within a 400 metre walking distance of the existing bus stop. Closures and relocation of bus stops during construction must be undertaken in consultation with Transport for NSW and relevant council(s). Wayfinding signage must be provided directing commuters to adjacent or relocated bus stops. Footpaths and (where required) road crossing facilities must be provided to any relocated bus stops such that accessibility and safety standards are met. | Appendix A2 – Aspects<br>and Impacts Register and<br>Appendix B1 - Traffic and<br>Access Management<br>Procedure |  |
| E119       | Prior to the commencement of operation, all bus stops temporarily closed or relocated must be reinstated<br>in a manner that provides equal or improved capacity, amenity and accessibility (including footpaths and<br>road crossings) in consultation with Transport for NSW and relevant council(s).   | Appendix A2 – Aspects<br>and Impacts Register and<br>Appendix B1 - Traffic and<br>Access Management<br>Procedure |  |
| E120       | Access to all utilities and properties must be maintained during construction, where practicable, unless otherwise agreed with the relevant utility owner, landowner or occupier.   | Appendix B1 - Traffic and<br>Access Management<br>Procedure  |  |
| E121       | Any property access physically affected by the CSSI must be reinstated to at least an equivalent standard, unless otherwise agreed by the landowner or occupier.  | Communication Strategy   |  |
| E122       | Access to and from the Rockdale construction ancillary facility (C2) by heavy vehicles must only be via West Botany Street, unless otherwise approved by the Planning Secretary.  | Appendix B1 - Traffic and<br>Access Management<br>Procedure  |  |
| Road Dilap | Road Dilapidation   |  |  |
| E127       | Before any local road is used by a heavy vehicle for the purposes of the CSSI, a <b>Road Dilapidation</b><br><b>Report</b> must be prepared for the road. A copy of the <b>Road Dilapidation Report</b> must be provided to the<br>relevant council within three (3) weeks of completion of the survey and no later than one (1) month prior<br>to the road being used by heavy vehicles associated with the CSSI.  | Appendix B1 - Traffic and<br>Access Management<br>Procedure  |  |
|            |   | Communication Strategy   |  |

| СоА     | Condition Requirements  | Document Reference  |
|---------|---|---|
| E128    | <ul> <li>(a) If damage to roads occurs as a result of the CSSI, the Proponent must either (at the relevant road authority's discretion):compensate the relevant road authority for the damage so caused; or</li> <li>(b) rectify the damage to restore the road to at least the condition it was in pre-works as identified</li> </ul>  | Appendix B1 - Traffic and<br>Access Management<br>Procedure |
|         | in the <b>Road Dilapidation Report(s)</b> .   | Communication Strategy                                      |
| Parking |   |   |
| E129    | Construction vehicles (including staff vehicles) associated with the CSSI must be managed to minimise parking, idling and queuing on public roads.  | Appendix A4 - Site<br>Establishment<br>Management Plan      |
|         |   | Appendix B1 - Traffic and<br>Access Management<br>Procedure |
| E130    | A <b>Construction Parking and Access Strategy</b> must be prepared and implemented to identify and mitigate impacts resulting from on- and off-street parking changes during construction. The Strategy must include, but not necessarily be limited to:  | Construction Parking and<br>Access Strategy                 |
|         | <ul> <li>(a) confirmation and timing of the removal of on- and off-street parking associated with construction<br/>(including during site establishment when access to off-street parking at construction ancillary<br/>facilities has yet to be established);</li> </ul>   |   |
|         | <ul> <li>(b) parking accumulation surveys (consistent with Austroads requirements) of parking spaces to be<br/>removed to determine current demand during peak, off-peak, school drop off and pickup, and<br/>weekend periods;</li> </ul>   |   |
|         | <ul> <li>(c) consultation with affected stakeholders, including property occupants with driveway access along<br/>President Avenue between Civic Avenue and Princes Highway, utilising existing on- and off-street<br/>parking stock which will be impacted as a result of construction and impacted by the introduction<br/>of temporary clearways on President Avenue;</li> </ul> |   |
|         | <ul> <li>(d) review of the impacts of changes to on- and off-street parking stock taking into consideration<br/>outcomes of consultation with affected stakeholders;</li> </ul>   |   |
|         | <ul> <li>(e) identification of mitigation measures to manage impacts to stakeholders as a result of on- and off-<br/>street parking changes including, but not necessarily limited to, staged removal and replacement<br/>of parking and provision of alternative parking arrangements;</li> </ul>  |   |
|         | (f) strategies to address shortfalls in car parking spaces at individual construction ancillary facilities<br>and disincentivising construction personnel from parking on the street near work sites instead of<br>further afield at a different construction ancillary facility where car spaces are available, including  |   |

| СоА       | Condition Requirements  | Document Reference   |
|-----------|---|--|
|           | <ul> <li>managed staff parking arrangements and working with relevant council(s) to introduce parking restrictions adjacent to work sites and compounds;</li> <li>(g) review of the provision of a shuttle bus service(s) to transport workers to site(s) and details of the shuttle bus service(s), including service timing and frequency, where; reasonable and feasible</li> <li>(h) mechanisms for monitoring, over appropriate intervals, to determine the effectiveness of implemented mitigation measures;</li> <li>(i) provision of contingency measures should the results of mitigation monitoring indicate implemented measures are ineffective; and</li> <li>(j) provision of reporting of monitoring results to the Planning Secretary and relevant council(s) at three (3) monthly intervals.</li> <li>The Construction Parking and Access Strategy must be submitted to the Planning Secretary for information prior to the commencement of any works that impact parking.</li> </ul> |  |
| E131      | During construction, all reasonably practicable measures must be implemented to maintain pedestrian<br>and vehicular access to, and parking in the vicinity of, businesses and affected properties. Disruptions<br>are to be avoided, and where avoidance is not possible, minimised. Where disruption cannot be<br>minimised, alternative pedestrian and vehicular access, and parking arrangements must be developed<br>in consultation with affected businesses and implemented prior to the disruption. Adequate signage and<br>directions to businesses must be provided prior to, and for the duration of, any disruption.  | Appendix B1 - Traffic and<br>Access Management<br>Procedure            |
| Safety Au | dits  |  |
| E132      | The CSSI (including new or modified local roads, parking, on-road pedestrian and cycle infrastructure) must be designed to meet relevant design, engineering and safety guidelines.   | Design Management<br>Plan  |
| Urban Des | sign and Place Making Construction Ancillary Facilities   |  |
| E136      | The CSSI must be constructed in a manner that minimises visual impacts of construction sites, such as providing temporary landscaping and vegetative screening of the construction sites, minimising light spill, and incorporating treatments and finishes within key elements of temporary structures that reflect the context within which the construction sites are located.   | Appendix A4 – Site<br>Establishment<br>Management Plan<br>Construction |

| СоА      | Condition Requirements  | Document Reference   |
|----------|---|--|
| E140     | The Proponent must construct and operate the CSSI with the objective of minimising light spillage to surrounding properties. All lighting associated with construction and operation must be consistent with the requirements of <i>Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting</i> and relevant Australian Standards in the series <i>AS/NZ 1158 – Lighting for Roads and Public Spaces,</i> as relevant. Additionally, the Proponent must provide mitigation measures to manage any residual night lighting impacts from operational motorway complexes and the shared pedestrian and cycling pathway to protect properties adjoining or adjacent to the CSSI, in consultation with affected landowners. | Appendix A4 – Site<br>Establishment<br>Management Plan             |
| E141     | The Proponent must implement measures, in consultation with affected residents, to prevent headlights from vehicles exiting the Rockdale construction ancillary facility (C2) spilling onto residences along West Botany street that are adjacent to and opposite the site access way.  | Appendix A4 – Site<br>Establishment<br>Management Plan             |
|          |   | Construction<br>Management Plan                                    |
| Tree Rem | ovals and Plantings   |  |
|          |   |  |
| E146     | Prior to removing any street trees, the Proponent must commission an experienced and suitably qualified arborist independent of the design and construction of the CSSI, to prepare a comprehensive <b>Tree Report(s)</b> . The <b>Tree Report</b> may be prepared for all trees that will be removed or separate reports may be prepared for individual areas where trees are required to be removed. The report(s) must include:  | Tree Reports will be<br>submitted to DPIE prior<br>to tree removal |
|          | <ul> <li>(a) a visual tree assessment of the type, stability and health of the tree;</li> <li>(b) consideration of all options to amend the CSSI where a street tree has been identified for removal, including realignment, relocation of services, redesign of or relocation of ancillary components and reduction of standard offsets to underground services; and</li> <li>(c) measures to avoid the removal of trees or minimise damage to existing trees.</li> <li>A copy of the report(s) must be submitted to the Planning Secretary for approval prior to the removal of</li> </ul>  |  |

| СоА  | Condition Requirements   | Document Reference        |
|------|--|---------------------------|
| E154 | A <b>UDLP</b> must be prepared to inform the final design of the CSSI, in accordance with the project objectives, the commitments made in the documents listed in <b>Condition A1</b> , and the requirements of this approval.   | Design Management<br>Plan |
|      | The <b>UDLP</b> does not apply to works that do not allow an alternate design outcome and this has been approved by the Planning Secretary.  |                           |
| E155 | The <b>UDLP(s)</b> must be prepared by a suitably qualified and experienced person(s). Unless otherwise approved by the Planning Secretary, the person(s) must show demonstrated skill and expertise in the following professional fields:   | Design Management<br>Plan |
|      | <ul> <li>(a) architecture;</li> <li>(b) urban design;</li> <li>(c) landscape design;</li> <li>(d) Aboriginal cultural heritage; and</li> <li>(e) non-Aboriginal heritage.</li> </ul>   |                           |
| E156 | The <b>UDLP</b> must be prepared in consultation with relevant council(s), the community and affected landowners and businesses. The <b>UDLP</b> must meet the reasonable requirements of these stakeholders and must meet or exceed the design standards of relevant council(s) guidelines. The <b>UDLP</b> must include, but not necessarily be limited to:  | Design Management<br>Plan |
|      | <ul> <li>(a) an analysis of the heritage, built, natural and community context and values, and articulation of the urban design objectives, principles and standards for the CSSI;</li> <li>(b) the urban design and landscape requirements of this approval, including but not limited to: <ul> <li>i. the Pedestrian and Cycle Implementation Plan identified in Condition E153,</li> <li>ii. heritage interpretation and plantings (including rehabilitation works to address heritage impacts on Patmore Swamps) identified in Condition E58,</li> <li>iii. the RFRP identified in Condition E104,</li> </ul> </li> </ul>  |                           |
|      | <ul> <li>iv. sustainability initiatives;</li> <li>(c) the design of the CSSI elements including their form, materials, detail and staging;</li> <li>(d) the design of the project landform and earthworks;</li> <li>(e) the location of existing vegetation, areas of vegetation to be retained and proposed planting and seeding details, including the use of local indigenous species for revegetation activities;</li> <li>(f) viewel according to provide the second second</li></ul> |                           |
|      | <ul> <li>(f) visual screening requirements;</li> <li>(g) developed visuals, cross sections and plans showing the proposed design outcome; and</li> <li>(h) details of strategies to rehabilitate, regenerate or revegetate disturbed areas and successfully establish and maintain the resulting new landscape.</li> </ul>   |                           |

| СоА         | Condition Requirements  | Document Reference  |
|-------------|---|---|
| E157        | The Proponent must submit the <b>UDLP</b> to the Planning Secretary for approval no later than one (1) month prior to the construction of permanent built surface works or landscaping works that are the subject of the <b>UDLP(s)</b> (in the area to which the <b>UDLP</b> applies) or earth works for the final surface contouring of the reinstated Rockdale Bicentennial Park, whichever is the sooner. | Plan  |
| E158        | Construction of permanent built works or landscaping that are the subject of the <b>UDLP</b> must not be commenced (in the area to which the <b>UDLP</b> applies) until the <b>UDLP</b> has been approved by the Planning Secretary.  | Design Management<br>Plan   |
| Utilities M | anagement   |   |
| E161        | utility works. The Strategy must identify how the works will be managed and must include:   | Low impact utility works<br>will be conducted in<br>accordance with the<br>CEMP |
|             | <ul> <li>(a) a description of all low impact utility works to be undertaken, including how they meet the definition of Low Impact Utility Works and</li> <li>(b) the management measures that will be implemented to manage dust, noise, traffic, access and lighting impacts associated with low impact utility works.</li> </ul>  | <b>-</b>  |
|             | The <b>Strategy</b> must be submitted to the Planning Secretary for approval at least one (1) month prior to the commencement of low impact utility works.  |   |
|             | Note: Utility works that are not low impact are construction and appropriate management measures would be included in the CEMP  |   |
| Utility Cod | ordination Manager  |   |
| E162        | A Utility Coordination Manager must be appointed for the duration of the works. The role of the Utility Coordination Manager must include, but not be limited to:   | Communication Strategy  |
|             | <ul> <li>(a) the management and coordination of all utility works associated with the delivery of the CSSI, to ensure respite is provided to the community, as required under Conditions E69 and E71;</li> <li>(b) investigating complaints received from the Community Complaints Mediator relating to utility works; and</li> <li>(c) providing a response to the Community Complaints Mediator.</li> </ul> |   |
| Waste       |   |   |

| СоА   | Condition Requirements   | Document Reference                   |
|-------|--|--------------------------------------|
| E163  | Waste generated during construction and operation must be dealt with in accordance with the following priorities:  | Appendix B9 - Waste<br>CEMP Sub-plan |
|       | <ul> <li>(a) waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced;</li> <li>(b) where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and</li> <li>(c) where re-using, recycling or recovering waste is not possible, waste must be treated or disposed of at a waste management facility or premise lawfully permitted to accept the materials or in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014 (NSW)</i>, or to any other place</li> </ul>   |                                      |
| E164  | that can lawfully accept such waste.         Waste generated outside the CSSI site must not be received at the CSSI site for storage, treatment, processing, reprocessing or disposal on the CSSI site, except as expressly permitted by a licence or waste exemption under the Protection of the Environment Operations Act 1997 (NSW), if such a licence is required in relation to that waste.  | Appendix B9 - Waste<br>CEMP Sub-plan |
| E165  | The importation of waste and the storage, treatment, processing, reprocessing or disposal of such waste must comply with the conditions of the current EPL for the CSSI, or be done in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014 (NSW)</i> , as the case may be.   | Appendix B9 - Waste<br>CEMP Sub-plan |
| E166  | All waste generated during construction and operation must be classified in accordance with the EPA's <i>Waste Classification Guidelines</i> , with appropriate records and disposal dockets retained for audit purposes.  | Appendix B9 - Waste<br>CEMP Sub-plan |
| E167  | <ul> <li>The Proponent must develop and implement a waste tracking register that details:</li> <li>(a) the quantity of each type of waste generated, its classification and source location (recorded using latitude and longitude coordinates);</li> <li>(b) the destination location(s) for all wastes generated during construction;</li> <li>(c) the quantities of any waste types imported onto the CSSI site, including their classification and emplacement location (recorded using latitude and longitude coordinates);</li> <li>(d) the quantities and types of wastes that are subject to a Resource Recovery Order and/or Exemption; and</li> <li>(e) disposal records demonstrating that receiving facilities have lawfully accepted the waste type.</li> </ul> | Appendix B9 - Waste<br>CEMP Sub-plan |
| Water |  |                                      |

| СоА  | Condition Requirements   | Document Reference   |
|------|--|--|
| E168 | The CSSI must be designed, constructed and operated so as to maintain the <i>NSW Water Quality</i><br><i>Objectives</i> where they are being achieved as at the date of this approval, and contribute towards<br>achievement of the <i>NSW Water Quality Objectives</i> over time where they are not being achieved as at<br>the date of this approval, unless an EPL in force in respect of the CSSI contains different requirements<br>in relation to the <i>NSW Water Quality Objectives</i> , in which case those requirements must be complied<br>with. | Appendix B4 - Soil and<br>Surface Water<br>Management Procedure                    |
|      | Note: Discharge criteria for construction water treatment plant discharges will be included in the EPL for the project.  |  |
| E171 | Works on waterfront land must be carried out in accordance with controlled activity guidelines.  | Appendix B4 - Soil and<br>Surface Water<br>Management Procedure                    |
|      |  | During preliminary<br>construction, no works<br>will occur within<br>watercourses. |

## **Table 2: EIS Performance Outcomes**

| EIS Ref                          | Performance Outcome   | Document Reference                     |
|----------------------------------|---|--|
| EIS, Chapter 24,<br>Section 24.7 | Air Quality   | Air Quality and Odour<br>CEMP Sub-plan |
|                                  | The project is designed, constructed and operated in a manner that minimises air quality impacts (including nuisance dust and odour) to minimise risks to human health and the environment to the greatest extent practicable.  |  |
| EIS, Chapter 24,                 | Noise and Vibration – Amenity   | Noise and Vibration                    |
| Section 24.7                     | Construction noise and vibration (including airborne noise, ground-borne noise and blasting) are effectively managed to minimise adverse impacts on acoustic amenity.   | CEMP Sub-plan                          |
|                                  | Increases in noise emissions and vibration affecting nearby properties and other sensitive receptors during operation of the project are effectively managed to protect the amenity and well-being of the community   |  |
| EIS, Chapter 24,                 | Noise and Vibration – Structural  | Noise and Vibration                    |
| Section 24.7                     | Construction noise and vibration (including airborne noise, ground-borne noise and blasting) are effectively managed to minimise adverse impacts on the structural integrity of buildings and items including Aboriginal places and environmental heritage.   | CEMP Sub-plan                          |
|                                  | Increases in noise emissions and vibration affecting environmental heritage as defined in the <i>Heritage Act 1977</i> during operation of the project are effectively managed.   |  |
| EIS, Chapter 24,                 | Biodiversity  | Flora and Fauna                        |
| Section 24.7                     | The project design considers all feasible measures to avoid and minimise impacts on terrestrial and aquatic biodiversity.   | Management<br>Procedure                |
|                                  | Offsets and/or supplementary measures are assured which are equivalent to any remaining impacts of project construction and operation.  |  |
| EIS, Chapter 24,                 | Socio-economic, Land Use and Property   | Communications                         |
| Section 24.7                     | The project minimises adverse social and economic impacts and capitalises on opportunities potentially available to affected communities.   | Strategy                               |
|                                  | The project minimises impacts to property and business and achieves appropriate integration with adjoining land uses, including maintenance of appropriate access to properties and community facilities, and minimisation of community facilities, and minimisation of dwellings and infrastructure. |  |

| EIS Ref                          | Performance Outcome   | Document Reference  |
|----------------------------------|---|---|
| EIS, Chapter 24,<br>Section 24.7 | Water – Quality<br>The project is designed, constructed and operated to protect the NSW Water Quality Objectives<br>where they are currently being achieved, and contribute towards achievement of the Water Quality<br>Objectives over time where they are currently not being achieved, including downstream of the project<br>to the extent of the project impact including estuarine and marine waters (if applicable). | Soil and Surface<br>Water Management<br>Procedure                                   |
| EIS, Chapter 24,<br>Section 24.7 | <b>Soils</b><br>The environmental values of land, including soils, subsoils and landforms, are protected. Risks arising<br>from the disturbance and excavation of land and disposal of soil are minimised, including disturbance<br>to acid sulfate soils and site contamination.   | Soil and Surface<br>Water Management<br>Procedure<br>Contamination<br>CEMP Sub-plan |
| EIS, Chapter 24,<br>Section 24.7 | Waste<br>All wastes generated during the construction and operation of the project are effectively stored,<br>handled, treated reused, recycled and/or disposed of lawfully and in a manner that protects<br>environmental values.  | Waste CEMP Sub-<br>plan   |

## **Table 3: Environmental Management Measures**

| EMM No.         | EMM Requirements   | Document Reference   |  |  |
|-----------------|--|--|--|--|
| Traffic and Tra | Traffic and Transport  |  |  |  |
| TT1             | A Construction Traffic and Access Management Plan (CTAMP) will be prepared as part of the<br>Construction Environmental Management Plan. The CTAMP will detail processes to minimise delays<br>and disruptions and identify and respond to changes in road safety as a result of project construction<br>works. The CTAMP will be prepared in accordance with applicable guidelines and relevant standards,<br>guides and manuals. | B1 - Traffic and<br>Access<br>Management<br>Procedure  |  |  |
| ТТ3             | During construction, work with the TMC to observe traffic flows and incidents from CCTV footage and where reasonable and feasible, modify sites and activities to address issues identified by TMC.  | Communications<br>Strategy, Appendix<br>B1 - Traffic and<br>Access<br>Management<br>Procedure  |  |  |
| TT5             | Minimise local road closures and maintain adequate property access to the road network. Property owners would be consulted and agree to any changes to access.   | Appendix A2 –<br>Aspects and Impacts<br>Register, Appendix<br>B1 - Traffic and<br>Access<br>Management<br>Procedure and<br>Communication<br>Strategy |  |  |
| ТТ7             | Prior to impacting roads, a road dilapidation report will be prepared, in consultation with relevant<br>council(s) and road owners, identifying existing conditions of local roads and mechanisms to repair<br>damage to the road network caused by heavy vehicle movements associated with the project.   | Appendix A2 –<br>Aspects and Impacts<br>Register, Appendix<br>B1 - Traffic and<br>Access<br>Management<br>Procedure and<br>Communication<br>Strategy |  |  |
| Air Quality     |  |  |  |  |

| EMM No.       | EMM Requirements  | Document Reference  |
|---------------|---|---|
| AQ1           | A Construction Air Quality Management Plan will be developed and implemented to monitor and manage potential air quality  | Appendix B7 – Air Quality<br>and Odour CEMP Sub-  |
|               | impacts associated with the construction of the project and activities at construction ancillary facilities.<br>The management plan will identify project construction activities with the potential to have air quality<br>impacts and the controls required to avoid, minimise and mitigate these impacts.  | plan  |
|               | The plan will include measures to:  |   |
|               | <ul> <li>Minimise project and cumulative dust generation from stockpiles, haulage routes, work activities, exposed ground surfaces and acoustic spoil sheds</li> <li>Manage the transport, storage and handling of sand, aggregate and fine materials</li> <li>Minimise generator and vehicle emissions during construction of the tunnel</li> <li>Inspect and address corrective actions</li> <li>Modify or cease dust generating works during unfavourable weather conditions.</li> <li>The Plan will be implemented for the duration of construction and will include appropriate dust monitoring procedures.</li> </ul> |   |
| AQ2           | Demolition activities, including removal of hazardous building materials will be planned and carried out in a manner that minimises the potential for dust generation. Removal of hazardous building materials will be completed prior to the demolition works.   | Appendix B7 – Air Quality<br>and Odour CEMP Sub-<br>plan  |
| AQ3           | Odorous material would be treated immediately on-site, and removed from site where necessary.<br>Areas of odorous materials would be excavated in a staged process to allow for treatment and<br>handling. Exposed areas of odorous material would be kept to a minimum to reduce the total<br>emissions from the site.   | Appendix B7 – Air Quality<br>and Odour CEMP Sub-<br>plan  |
|               | On-site odour measurements would be carried out during excavation works to determine odour emission rates. Results from the monitoring would be used to inform future excavation and treatment activities on site.  |   |
| Health, safet | y and hazards   |   |
| HS1           | A Pollution Incident Response Management Plan (PIRMP) will be prepared for the project. The<br>PIRMP will be prepared in accordance with legislative requirements and include measures to<br>manage hazardous substances and dangerous goods including storage, handling and spill<br>response.   | Refer to EPL, PIRMP,<br>Work Health & Safety<br>Management Plan and<br>Emergency Management<br>Response |

| EMM No.      | EMM Requirements   | Document Reference  |
|--------------|--|---|
| HS2          | A Work Health and Safety Plan will be implemented during construction of the project, supplemented by site and activity specific Safe Work Method Statements.  | Work Health & Safety<br>Management Plan   |
| HS3          | Transport of dangerous goods and hazardous substances will be conducted in accordance with relevant legislation and codes.   | Appendix B4 - Soil and<br>Surface Water<br>Management Procedure   |
| HS6          | The project will be constructed and operated in accordance with the design requirements of CASA and the Sydney Airport Master Plan 2033, with respect to lighting.   | Design Management Plan  |
| Noise and Vi | bration  |   |
| NV1          | <ul> <li>A Construction Noise and Vibration Management Plan (CNVMP) will be prepared. The CNVMP will include processes and responsibilities to assess, monitor, minimise and mitigate noise and vibration impacts during construction.</li> <li>The plan will: <ul> <li>Identify relevant performance criteria in relation to noise and vibration</li> <li>Identify noise and vibration sensitive receptors and features in the vicinity of the project</li> <li>Include standard and additional mitigation measures from the Construction Noise and Vibration Guideline (CNVG) (Roads and Maritime 2016) and details about when each will be applied</li> <li>Describe the process(es) that will be adopted for carrying out location and activity specific noise and vibration impact assessments to assist with the selection of appropriate mitigation measures</li> <li>Consider cumulative construction noise impacts and construction noise fatigue</li> <li>Include protocols that will be adopted to manage works required outside standard construction hours, in accordance with relevant guidelines including for management of respite periods</li> <li>Include a Blast Management Strategy (where blasting is required)</li> <li>Detail monitoring that will be carried out to confirm project performance in relation to noise and vibration performance criteria.</li> </ul> </li> </ul> | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for<br>Preliminary<br>Construction Works |
| NV2          | Detailed noise assessments will be carried out for all ancillary facilities required for construction of the project. The requirement for temporary noise walls within ancillary facilities and adjacent to construction works, and the requirement for other appropriate noise management measures, is to   | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for                                      |

| EMM No. | EMM Requirements  | Document Reference  |
|---------|---|---|
|         | be assessed and implemented prior to the commencement of activities which have the potential to cause noise or vibration impacts.   | Preliminary<br>Construction Works   |
| NV3     | All residents affected by noise from the construction of the project which are expected to experience<br>an exceedance of the construction-NMLsnoise management levels will be-consulted-notified about<br>potential noise impacts the project prior to the commencement of construction works.   | Communication<br>Strategy, Appendix<br>B3 – Noise and                         |
|         | Roads and Maritime-would-will consult with vulnerable members of the community who are likely to be more susceptible to adverse health effects of noise (especially those who are elderly, who do not speak English, are housebound, or who may be unwell) to accommodate their preferences for noise mitigation, as far as practicable.  | Vibration CEMP<br>Sub-plan and CNVIS<br>for Preliminary<br>Construction Works |
|         | Consultation-wouldwill also be undertaken with all schools likely to be affected, and in particular Cairnsfoot Special School, to determine suitable mitigation measures where necessary.   |   |
|         | The information provided to the residents will include:   |   |
|         | <ul> <li>General sequencing and locations of construction work</li> <li>The hours of the project works</li> </ul>   |   |
|         | <ul> <li>Construction noise and vibration impact predictions for the works</li> <li>Construction noise and vibration mitigation measures likely to be implemented on site.</li> <li>Community consultation regarding construction noise and vibration will be detailed in the Community Involvement Communication Strategy-Plan for the construction of the project and will include a complaints handling process. The community will be able to provide feedback via a 24 hour, toll-free project information and complaints line, a dedicated email address and postal address for the project.</li> </ul> |   |
|         | For out of hours works, consultation with affected residents will take place with consideration to Practice note vii of the ENMM and Strategy 2 of the ICNG.  |   |
| NV4     | Noisy work (as defined in the EPL) and vibration intensive activities (those activities that exceed the vibration criteria) will be scheduled to be undertaken during standard construction hours as far as possible. Works or activities that cannot be undertaken during standard construction hours will be scheduled as early as possible during the evening and/or night-time periods.   | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for        |
|         | Respite measures are to be implemented for noisy work and vibration intensive activities in a manner consistent with EPL and Roads and Maritime guideline requirements.   | Preliminary<br>Construction Works;<br>Communications<br>Strategy              |
| NV5     | Receptors identified as requiring at-property noise mitigation because of an exceedance of<br>operational traffic noise goals noise management levels when the project is operating, will be  | At-property Noise<br>Treatment Report;  |

| EMM No.      | EMM Requirements  | Document Reference  |
|--------------|---|---|
|              | offered treatment prior to construction commencing. The receptors which are predicted to trigger consideration of noise mitigation will be confirmed during the detailed future design phases of the project and any additional eligible receptors will be contacted and noise mitigation options discussed with them. Receptors identified as requiring at-property operational noise mitigation will be identified and offered treatment prior to commencement of construction works that affects them.   | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for<br>Preliminary<br>Construction Works                   |
| NV6          | Construction vehicle movements (on and off site) will be managed to avoid or minimise noise impacts.<br>Where reasonable and feasible, spoil will only be removed from site during the day. Mitigation<br>measures for vehicle movements outside of standard construction hours are to be included in the<br>CNVMP.   | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for<br>Preliminary<br>Construction Works                   |
| NV7          | Vibration generating activities will be managed to minimise the potential for impacts on structures and sensitive receptor(s), including maximising safe working distances where practicable, or use of alternate methods to minimise vibration where safe working distances cannot be achieved. Where alternatives cannot be implemented, vibration monitoring is to be undertaken and receptors notified in advance of works. Vibration monitors are to provide real-time notification of exceedances of levels approaching cosmetic damage criteria. | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for<br>Preliminary<br>Construction Works                   |
| Biodiversity |   |   |
| B1           | Detailed design will avoid or minimise the need for native vegetation and habitat removal for the construction of the project, where feasible.<br>A plan for the rehabilitation of all areas directly affected by construction, including water bodies, would be included as part of the CFFP (refer B4 below).   | Design Management<br>Plan, Appendix A6 -<br>Sensitive Area Plans,<br>Appendix B2 – Flora and<br>Fauna Management<br>Procedure |
| B2           | Detailed design of the project will avoid or minimise artificial light impacts on biodiversity within and immediately adjacent to the operational project (eg downward-facing lighting along the shared cycle and pedestrian pathways).   | Appendix A4 – Site<br>Establishment<br>Management Plan  |
|              |   | Design Management Plan  |

| EMM No.      | EMM Requirements   | Document Reference   |
|--------------|--|--|
| B5           | All construction site inductions will contain a relevant section on identifying and managing potential risks to the Green and Golden Bell Frog. This will include identification of the frog and its habitat, a clear outline of the location of no-go zones for construction personnel, equipment and materials (including herbicides and pesticides), hygiene protocols and what to do in the event of an unexpected find. | Appendix B2 – Flora and<br>Fauna Management<br>Procedure and Green and<br>Golden Bell Frog Plan of<br>Management |
|              | Frog exclusion fencing and sediment controls will be installed.  |  |
|              | Any Green and Golden Bell Frogs encountered within the construction boundary during construction are to be collected by a qualified and experienced herpetologist and relocated within the adjacent golf course by the herpetologist.  |  |
|              | Impacts to Green and Golden Bell Frog due to light spill will be mitigated with lighting directed to minimise construction night time light spill outside of all construction areas, particularly onto the RTA ponds and Kogarah Golf Course.  |  |
|              | The ground surface within the Arncliffe construction ancillary facility (excluding the operational footprint) will be reinstated to a condition the same or better than prior to the commencement of construction of the New M5 Motorway project in consultation with relevant stakeholders.   |  |
| Landscape an | nd Visual  |  |
| LVIA1        | An Urban Design and Landscape Plan (UDLP) will be prepared and implemented. The plan-UDLP will detail built and landscape features and architectural treatments to be implemented prior to operation of the project. The UDLP will be developed in consultation with local councils, other key stakeholders and the community and made available to the public.  | Design Management<br>Plan  |
|              | The plan is to be developed in consultation with local council.  |  |
| LVIA2        | Where reasonable and feasible, existing trees will be retained and protected within construction areas.  | Appendix A6 –<br>Sensitive Area Plans<br>and Appendix B2 -<br>Flora and Fauna<br>Management<br>Procedure         |
| LVIA3        | Construction and operational lighting will be oriented to minimise glare and light spill impacts on adjacent receptors.  | Design Management<br>Plan, Appendix A6 –<br>Sensitive Area   |

| EMM No.      | EMM Requirements  | Document Reference   |
|--------------|---|--|
|              |   | Plans, Appendix B3<br>Noise and Vibration<br>Sub-plan and CNVIS<br>for Preliminary<br>Construction Works |
| LVIA4        | The design and maintenance of construction compound hoardings will aim to minimise visual impacts and landscape character impact, including the prompt removal of graffiti.   | Appendix A4 – Site<br>Establishment<br>Management Plan   |
| LVIA5        | <ul> <li>Where trees are removed to facilitate construction of the project, replacement trees would be selected and planted in accordance with the tree management strategy developed for the project. The strategy would provide for the following:</li> <li>Consideration of all options to minimise the need for tree removal and to retain as many trees as possible</li> <li>Preparation of comprehensive tree reports (by a qualified arborist) for trees requiring protection, pruning, or removal, to guide the approach to managing trees</li> <li>Measures to minimise damage to, and ensure the health and stability of, trees to be retained, in accordance with AS4970-2009 Protection of trees on development sites</li> <li>Replacement of trees where removal cannot be avoided, in accordance with the following general principles: <ul> <li>net increase in the number of replacement trees</li> <li>provision of replacement trees to achieve similar outcomes as those removed where possible, such as screening, amenity, etc.</li> <li>replacement trees are to have a minimum pot size of 75 litres, except where the plantings are consistent with the pot sizes specified in a relevant authority's plans for vegetation management, or as agreed by the relevant authority's (such as Bayside Council)</li> <li>trees to be planted within 500 metres of the project area wherever practicable, or in another location determined in consultation with the relevant council</li> </ul> </li> </ul> | Appendix B2 - Flora<br>and Fauna<br>Management<br>Procedure and Tree<br>Reports                          |
| Property and | l land use  |  |
| PL1          | Prior to the commencement of works, a toll-free Acquisition Assistance Line will be established and maintained for a period of up to six months following completion of the final acquisition for the project.  | Communication<br>Strategy  |

| EMM No.        | EMM Requirements  | Document Reference  |
|----------------|---|---|
|                | The Acquisition Assistance Line is to provide ongoing dispute resolution, a counselling program and contact information for relevant services for relocated persons.  |   |
| PL4            | Prior to the commencement of construction, pre-construction Building Condition Surveys will be<br>offered in writing, to the owners of properties where there is a potential for construction activities to<br>cause cosmetic or structural damage. If accepted, a comprehensive written and photographic<br>condition report would be produced by an appropriate professional prior to relevant works<br>commencing. | Communication<br>Strategy, Design<br>Management Plan,<br>Appendix B3 Noise<br>and Vibration CEMP<br>Sub-plan and CNVIS<br>for Preliminary<br>Construction Works |
| PL5            | Interface agreements will be entered into with relevant owners of infrastructure and utility services likely to be impacted by construction of the project. The agreements will likely identify:  | Design Management<br>Plan   |
|                | <ul> <li>Minimum separation distances and appropriate settlement criteria for utility infrastructure</li> <li>Settlement monitoring requirements during construction</li> <li>Contingency actions in the event that settlement limits are exceeded.</li> </ul>  |   |
| PL7            | Roads and Maritime will enter into access agreements with relevant councils and other agency stakeholders for temporary access to public land to enable the construction of the project.  | Completed   |
| Social and Eco | onomic  |   |
| SE1            | A Site Establishment Management Plan will be prepared prior to construction and will have regard to the amenity of adjacent areas and minimising impacts to adjacent sensitive receivers, including potential noise, dust, traffic, visual, lighting and overshadowing and overlooking impacts <b>during the establishment phase</b> .  | Appendix A4 – Site<br>Establishment<br>Management Plan  |
| SE3            | A Business Management Plan will be prepared prior to construction to detail the process for identification and communication with businesses adversely affected by construction works.  | Communication<br>Strategy   |
| SE4            | Prepare and implement a Construction Fatigue Protocol as part of the CNVMP to address potential construction fatigue impacts. The Protocol will include consideration of noise attenuation and periods of respite for affected stakeholders, where reasonable and feasible, and restricting out of hours work where practicable.  | Appendix B3 –<br>Noise and Vibration<br>CEMP Sub-plan and<br>CNVIS for<br>Preliminary<br>Construction Works   |

| EMM No.      | EMM Requirements   | Document Reference                                |
|--------------|--|---|
| SE5          | A Community Communication Strategy would will be prepared prior to construction to detail the processes to facilitate communication between the project team and the community.  | Communication<br>Strategy                         |
| Soil and con | tamination   | <u> </u>  |
| SC2          | A Hazardous Building Materials Management Plan will be prepared detailing measures to manage the removal of known and unexpected hazardous building materials, including asbestos within buildings and soil. The plan is to be prepared in accordance with relevant guidelines.  | Appendix B8 –<br>Contamination CEMP<br>Sub-plan   |
| SC3          | Detailed site (contamination) investigations will be undertaken in accordance with the NSW EPA (1995) Sampling Design<br>Guidelines within the following ancillary facilities and construction sites prior to commencement of construction at these sites:   | Appendix B8 –<br>Contamination CEMP<br>Sub-plan   |
|              | <ul> <li>Rockdale construction ancillary facility (C2)</li> <li>President Avenue construction ancillary facility (C3), specifically Bicentennial Park and 427 to 441 West Botany Street</li> <li>Parts of the shared cycle and pedestrian pathways where earth works are required within Scarborough Park North, Civic Avenue, Bicentennial Park, Rockdale Women's Sports Field, Greg Atkins Mini Field, CA Redmond Field and White Oak Reserve</li> <li>Princes Highway construction ancillary facility (C6), the 7-Eleven service station at 734 Princes Highway, Kogarah</li> <li>The substation within St George TAFE.</li> <li>Where required, based on the results of the additional investigations, a Remedial Action Plan (RAP) will be prepared prior to construction.</li> </ul> |   |
| SC4          | Construction water treatment plants will be established and operated at the Arncliffe Construction<br>Ancillary Facility (C1), Rockdale Construction Ancillary Facility (C2) and President Avenue<br>Construction Ancillary Facility (C3) to treat water from the tunnel works. Discharge from these plants<br>will be managed to achieve the applicable ANZECC criteria.  | Appendix B4 – Soil and<br>Surface Water Procedure |
|              | Where feasible, water from the water treatment plants will be reused for construction activities.  |   |
| SC5          | An Acid Sulfate Management Plan will be prepared detailing processes to manage actual and potentia acid sulfate soils disturbed during construction.   | Appendix B4 – Soil and<br>Surface Water Procedure |

| EMM No.      | EMM Requirements  | Document Reference   |
|--------------|---|--|
|              |   | An Acid Sulfate Soil<br>Management Plan is in<br>preparation for<br>construction. No bulk<br>excavation during<br>preliminary construction<br>activities |
| SC6          | Further detailed investigation and assessment will be undertaken in Bicentennial Park in order to develop a management plans for Leachate and Landfill Gas Management Plan. The purpose of the management plans will be implemented to minimise nuisance odours to the surrounding area during excavation and to contain and treat landfill gas emissions from excavations. prevent the accumulation of landfill gases in buildings, basins and subsurface service trenches and pits associated with the project. The management plans may will include measures such as excavation staging, leachate and gas management, and gas and odour monitoring. | Design Management Plan   |
| SC7          | A soil conservation specialist will be engaged for the duration of construction to provide advice regarding erosion and sediment control.   | Appendix B4 - Soil and<br>Surface Water Procedure  |
| SC8          | Prior to ground disturbance in areas of very high potential soil salinity, testing will be carried out to confirm the presence of saline soils. If saline soils are encountered, they will be managed in accordance with Site Investigations for Urban Salinity (DLWC 2002).  | Appendix B8 –<br>Contamination CEMP<br>Sub-plan  |
| Groundwater  | and geology   |  |
| GW7          |   | Groundwater monitoring<br>will continue as per the<br>pre-construction phase,<br>while the Groundwater<br>Monitoring Program is                          |
|              | potential impacts. As a minimum, the program will include monthly manual groundwater level and quality monitoring and weekly monitoring of inflow volumes and quality.  | developed during Stage 1.  |
| Surface Wate | er and Flooding   |  |
| SWF1         | A program to monitor potential surface water quality impacts of the project will be developed and included in a Construction Soil and Water Management Plan (CSWMP).  | Surface and ground water<br>monitoring will continue as<br>per the pre-construction  |

| EMM No. | EMM Requirements   | Document Reference  |
|---------|--|---|
|         | The program will include the water quality monitoring parameters (including pH, turbidity, dissolved oxygen, nitrogen and metals) and the monitoring locations (including Muddy Creek, Rockdale Bicentennial Park, North Scarborough Ponds and Cooks River) identified in Annexure G of Appendix L (Surface water technical report)  | phase, while the Surface<br>water Monitoring Program<br>is developed during Stage<br>1. |
|         | Continuous surface water level and groundwater level monitoring will be undertaken within<br>Bicentennial Park Pond and surrounding area for at least 12 months prior to the commencement of<br>construction. Monthly groundwater quality would also be undertaken in the surrounding area. The data<br>would be used as a baseline to monitor impacts on surface and groundwater levels and groundwater<br>quality within the Pond during construction.                 |   |
|         | In the instance that during detailed design it cannot be demonstrated that treated construction wastewater would meet the discharge criteria for Scarborough Ponds, in particular nutrient concentrations, treated construction wastewater from C2 and C3 will be discharged to the Muddy Creek stormwater catchment.  |   |
| SWF6    | All works within watercourses or on waterfront land will be managed in accordance with the<br>Controlled Activities on Waterfront Land guidelines (DPI 2012).  | During preliminary construction, no   |
|         | The following specific measures are required to manage impacts within Bicentennial Park Pond:  | works will occur within watercourses.   |
|         | <ul> <li>Installation of a temporary barrier to isolate the excavation works from the rest of the pond and prevent mobilisation of sediment and pollutants into adjacent areas. Water within the construction zone will be treated by the construction water treatment plant. Sediment mobilised during installation of the barrier will also be managed</li> <li>Retention of hydrologic connectivity through Bicentennial Park Pond throughout construction</li> </ul> | Appendix B4 - Soil<br>and Surface Water<br>Procedure                                    |
| SWF8    | If the design identifies the risk of scour due to excessive velocities during construction and operation, the appropriate scour and erosion protection measures will be implemented at drainage outlets for both temporary and permanent works.  | During preliminary<br>construction, no<br>works will occur<br>within watercourses.      |
|         |  | Appendix B4 - Soil<br>and Surface Water<br>Procedure                                    |

| EMM No.        | EMM Requirements   | Document Reference  |
|----------------|--|---|
| SWF10          | A Flood Management Strategy (FMS) will be prepared prior to construction to demonstrate how flooding risks and behaviours will be mitigated during both the construction and operational phases. The FMS will include floor level survey for identified affected properties. The FMS would be prepared prior to commencement of construction by a suitably qualified and experienced person in consultation with directly affected landowners, Sydney Water, OEH, SES and relevant councils. | A Flood<br>Management<br>Strategy is in<br>preparation, as part<br>of detailed design,<br>and will be<br>completed (with<br>consultation), prior<br>to the construction<br>stage. |
| Non-Aborigina  | al heritage  |   |
| NAH1           | A Construction Heritage Management Plan will be prepared for the project. The plan will detail measures to minimise impacts on identified heritage features within the project boundary and will also detail procedures to manage unexpected heritage finds.   | Appendix B6 –<br>Heritage<br>Management Plan  |
| NAH2           | Impacts to non-Aboriginal heritage items will to the greatest extent practicable, be avoided and minimised. Where impacts are unavoidable, works will be undertaken in accordance with the relevant management strategy as defined for the non-Aboriginal heritage item.   | Appendix B6 –<br>Heritage<br>Management Plan  |
| NAH3           | Consultation will be undertaken with Bayside Council regarding the impacts that would occur to the Kings Wetland (heritage item listed on the Rockdale LEP 2011). Roads and Maritime will provide a copy of the proposed landscape rehabilitation plan to Council to facilitate comment on the proposed impacts and mitigation measures.   | Communication<br>Strategy; Appendix<br>B6 – Heritage<br>Management Sub-<br>plan   |
| NAH5           | A protection area will be established either side of the proposed haul road to reduce impacts within the<br>boundaries of the heritage listing. The delineation of the protection area will be maintained throughout<br>the construction period.   | Heritage<br>Management Plan   |
|                | As part of the detailed design phase, the haul road through the boundaries of the heritage listing will be further optimised with a view to reducing the requirement for the removal of vegetation, as far as is practical.  | and Appendix A4 –<br>Site Establishment<br>Management Plan  |
|                | At the conclusion of construction, parts of the area within the boundaries of the heritage listing will be rehabilitated.  |   |
| Aboriginal cul | Itural heritage  |   |

| EMM No.       | EMM Requirements  | Document Reference   |
|---------------|---|--|
| AH1           | If an Aboriginal object(s) is discovered during construction it would be managed in accordance with the Standard Management Procedure: Unexpected Heritage Items (Roads and Maritime Services 2015).  | Appendix B6 –<br>Heritage<br>Management Plan   |
| AH2           | If human remains are discovered during construction, they would be managed in accordance with the Standard Management Procedure: Unexpected Heritage Items (Roads and Maritime Services, 2015).   | Appendix B6 –<br>Heritage<br>Management Plan   |
| AH3           | The UDLP will include an Aboriginal interpretative signage strategy developed in consultation with the Metropolitan project would recognise the prior presence of Aboriginal people by highlighting resource zones they may have used. This could be undertaken through the implementation of interpretive signage and incorporated in to the Place making and Urban Design Strategy. Should this be pursued, it will be undertaken in consultation with the MLALC. | Design Management<br>Plan  |
| Waste Manage  | ement   |  |
| W1            |   | Appendix B9 - Waste<br>CEMP Sub-plan   |
|               | The CWMP will:  |  |
|               | <ul> <li>Document expected waste types and volumes for the project</li> </ul>   |  |
|               | <ul> <li>Describe procedures for managing office and project waste materials including separation,<br/>treatment and disposal in accordance with relevant guidelines</li> </ul>   |  |
|               | <ul> <li>Detail waste reporting requirements including the implementation of a waste register</li> </ul>  |  |
|               | Detail the process for identifying waste re-use sites including approval requirements.  | Ann an dia DO  |
| W4            | unexpected waste materials, including contaminated materials. Suitable areas will be required to be hardstand or lined areas that are appropriately stabilised and bunded, with sufficient area for stockpile storage.  | Appendix B8 –<br>Contamination CEMP<br>Sub-plan and Appendix<br>B9 - Waste CEMP Sub-<br>plan |
| Climate chang | ge adaptation   | ·  |
| CC2           | The increased potential for heat stress among construction personnel will be considered when refining construction Work Health and Safety Management Plans. Measures will be implemented to create greater awareness and education of personnel around health and wellbeing during periods of extreme heat.   | Work Health & Safety<br>Management Plan  |

| EMM No.      | EMM Requirements  | Document Reference  |
|--------------|---|---|
| Greenhouse G | Bas   |   |
| GG1          | Targets to reduce GHG emissions, including the use of green power and/or other renewable energy<br>sources, will be included as part of the project's Sustainability Management Plan to assist in achieving<br>'Design' and 'As Built' ratings of Excellent under the Infrastructure Sustainability Council of Australia<br>infrastructure rating tool. | Sustainability<br>Management Plan   |
| GG2          | An updated GHG assessment based on detailed design will be undertaken for ongoing monitoring and review of emissions during construction.   | Sustainability<br>Management Plan   |
| GG4          | Opportunities to use low emission construction materials, such as recycled aggregates in road pavement and surfacing, and cement replacement materials will be investigated and incorporated where feasible and cost-effective.   | Sustainability<br>Management Plan   |
| GG5          | Construction site layouts will be designed to reduce travel distances and double handling of materials so as to reduce fuel usage and emission generation.  | Sustainability<br>Management Plan and<br>Appendix A4 – Site<br>Establishment<br>Management Plan |
| GG6          | Construction plant and equipment will be well maintained to allow for optimal fuel efficiency.  | Appendix B7 – Air Quality<br>and Odour CEMP Sub-<br>plan  |
| GG7          | Raw materials will be managed to reduce energy requirements for their processing. For example, Sustainability stockpiled materials will be covered or provided undercover storage where possible to reduce moisture Management Plan content of materials, and therefore the process and handling requirements.  |   |
| GG8          | Locally produced goods and services will be procured where feasible and cost effective to reduce transport fuel emissions.  | Sustainability<br>Management Plan and<br>Procurement<br>Management Plan                         |

### **RMS** specification requirements

Table 4: RMS G36 requirements

| G36 Reference | Requirement   | Relevant section of CEMP or<br>supporting documentation |
|---------------|---|---|
| Section 2     | Implement a Contractors Environmental Management System (CEMS)  | Section 1.5 of CEMP                                     |
| Section 3     | An environmental policy must be included in the CEMS  | Appendix A3 – Environmental Policy                      |
| Section 3.1   | Prepare and implement a CEMP in accordance with ISO 14001 Clause 4.   | Section 1.5 of CEMP                                     |
| Section 2     | Nominate the Environmental Manager directly responsible for<br>ensuring that the requirements of the CEMS are implemented and<br>maintained.  | Emergency and key contacts table - page iv              |
| Section 3.3   | Indicate how suitable resources will be assigned to ensure that the CEMP is fully implemented.  | Section 3.4 of CEMP                                     |
| Section 3.3   | Detail the relationship between the designated Environmental Manager<br>and other personnel responsible for implementing the CEMP.  | Section 3.4 of CEMP                                     |
| Section 3.1   | Include a matrix or index in the CEMP showing where the environmental protection requirements of G36 have been addressed.   | Appendix A1 – Legal and Compliance<br>Tracking          |
| Section 3.7   | Advise RMS Representative of any changes to the CEMS or CEMP  | Section 3.4 of CEMP                                     |
| Section 3.9   | Monitor and evaluate environmental performance.   | Section 3.3.1 of CEMP                                   |
| Section 3.10  | Detail how control of non-conformity, corrective and preventive actions will be implemented and closed out.   | Section 3.10 of CEMP                                    |
| Section 3.9   | Schedule and undertake CEMS audits and CEMP compliance audits.  | Section 3.9.3 of CEMP                                   |
| Section 3.1   | A CEMP must be prepared and include environmental protection practices, resources and sequence of activities required to comply with relevant environmental legislation, conditions of any applicable licence, approval and permit, ISO 14001 Clause 4. | Section 3 of CEMP                                       |
| Section 3.1   | The CEMP must be either incorporated or part of the project quality plan.   | Section 3.10.2  |

| G36 Reference | Requirement   | Relevant section of CEMP or<br>supporting documentation                      |
|---------------|---|--|
| Section 4     | The CEMP must identify potential adverse environmental effect, applicable regulatory requirements and/or compliance limits, with a particular emphasis on a risk-based approach. Appropriate environmental protection measures must be documented to keep environmental effects within compliance limits.   | Section 4 of CEMP<br>CEMP Appendices B1 to B9                                |
| Section 4     | The CEMP must include all supplementary plans for environmental protection.   | CEMP Appendices B1 to B9   |
| Section 3.3   | The CEMP must indicate the names, responsibilities and authority of your site management personnel who have primary responsibility for implementing the CEMP, monitoring its effectiveness, rectifying and reporting any environmental deficiencies, controlling further construction activities until deficiencies are rectified and keeping your environmental records. | Emergency and key contacts table (front<br>of CEMP)<br>Section 3.4.1 of CEMP |
| Section 3.3   | The CEMP must identify the Environmental Manager as the authorised contact person for communications with the Roads and Maritime Representative and EPA on environmental matters.   | Section 3.4.1 of CEMP  |
| Section 3.12  | The CEMP must detail how changes to environmental management<br>documentation and data are to be identified and communicated to relevant<br>project personnel.  | Section 3.13 of CEMP   |
| Section 3.8   | The CEMP must include details of:   | Emergency and key contacts table   |
|               | Key emergency response personnel showing responsibilities and   | Section 3.7 of CEMP  |
|               | contact details including all-hours telephone numbers.  | Section 3.8 of CEMP  |
|               | Emergency services (e.g. ambulance, fire brigade, spill clean-up services).   |  |
|               | Communications strategy (internal and external).  |  |
|               | Containment measures to be taken in the event of emergency<br>situations that may arise during the Contractor's Work and  |  |

| G36 Reference | Requirement   | Relevant section of CEMP or<br>supporting documentation |
|---------------|---|---|
|               | procedures for restoration.   |   |
| Section 4.14  | All Environmental Incidents must be managed and reported in accordance with the Roads and Maritime-Environmental Incident Classification and Reporting Procedure.   | Section 3.8 of CEMP                                     |
| Section 4.14  | EPA will be notified via the EPA Environment Line (telephone 131 555) of<br>any environmental incidents or pollution incidents on or around the Site in<br>accordance with Part 5.7 of the Protection of the Environment Operations<br>Act 1997 (NSW) (POEO Act), in the following circumstances:   | Section 3.8 of CEMP                                     |
|               | <ul> <li>If actual or potential harm to the health or safety of human beings or<br/>ecosystems is not trivial.</li> </ul>   |   |
|               | • If actual or potential loss or property damage (including clean-up costs) associated with an environmental incident exceeds \$10,000.   |   |
|               | <ul> <li>Notify Roads and Maritime verbally immediately, and in writing within 24<br/>hours, of all environmental incidents.</li> </ul>   |   |
| Section 3.5   | Ensure that all staff and subcontractors working on the Site are provided<br>with environmental training to achieve a level of competence and<br>awareness appropriate to their assigned activities before they commence<br>their assigned activities.  | Section 3.6 of CEMP                                     |
| Section 3.4   | Include in the CEMP the procedures to be implemented to ensure subcontractor compliance.  | Section 3.9 of CEMP                                     |
| Section 3.7.1 | The CEMP must identify at least two people (and their contact telephone<br>numbers) who will be available to be contacted by the EPA on a 24 hour<br>basis and who have authority to take immediate action to shut down any<br>activity, or to effect any pollution control measures, as directed by an<br>authorised officer of the EPA. | Section 3.7.3 of CEMP                                   |
| Section 3.7.2 | Notify local residents about new or changed construction activities<br>which will affect access to their properties or otherwise significantly<br>disrupt residents' use of their premises.   | Communications Strategy                                 |

| G36 Reference  | Requirement   | Relevant section of CEMP or<br>supporting documentation  |
|----------------|---|--|
| Section 3.7.2  | Inform residents of the proposed work outside normal working hours.   | Appendix B3 – Noise and Vibration Sub-<br>plan and CNVIA for Preliminary<br>Construction Works |
| Section 3.7.2  | The CEMP must include a procedure for notifying Roads and Maritime<br>and all relevant authorities in advance of proposed extension to hours of<br>work.  | Appendix B3 – Noise and Vibration Sub-<br>plan and CNVIA for Preliminary<br>Construction Works |
| Section 3.7.3  | Report on complaints about any environmental issues, including pollution, arising from the Works.   | Communication Strategy   |
| Section 3.11   | Maintain environmental records to demonstrate compliance with the CEMP.   | Section 3.11.1 of CEMP   |
| Section 3.9    | Document in the CEMP and implement a checking procedure to verify that work is compliant with this Specification.   | Section 3.9.3 of CEMP  |
| Section 3.9    | Undertake inspections and surveillance, and report on performance of high risk events and activities, works in environmentally sensitive areas, the adequacy of operational controls, and measurements for aspects where compliance limits have been specified. | Section 3.9.1 of CEMP  |
| Section 3.9    | Develop and implement a risk-based auditing program.  | Section 3.9.3 of CEMP  |
| Section 4.11.2 | Implement and document in the CEMP a waste and recycling material data collection program.  | Appendix B9 – Waste CEMP Sub-plan  |
| Section 4.13   | Detail in the CEMP the location of environmental controls in environmentally sensitive areas.   | Appendix B2 – Flora and Fauna<br>Management Procedure<br>Appendix A6 Sensitive Area Plans      |
| Section 3.2.2  | Identify obligations under environmental legislation relevant to the Work.  | Appendix A1 – Legal and Compliance<br>Tracking   |
| Section 3.2.2  | Obtain all necessary approvals, licences and permits required for the work and carry out work in accordance with the requirements.  | Section 3.2.3 of CEMP<br>Appendix A Legal and Compliance<br>Tracking                           |

| G36 Reference       | Requirement   | Relevant section of CEMP or<br>supporting documentation  |
|---------------------|---|--|
| Section 4.15.1      | Identify construction activities and access requirements to the construction site and the other areas affected by the Work.   | Appendix B1 – Traffic and Access<br>Management Procedure                                       |
| Section 4.15.1      | Prepare and implement a construction traffic and access management plan.  | Appendix B1 – Traffic and Access<br>Management Procedure                                       |
| Section 4.1         | Prepare and implement a construction soil and water quality management plan addressing:   | Appendix B4 - Soil and Surface Water<br>Management Procedure                                   |
|                     | Erosion and sedimentation control.  |  |
|                     | Water extraction.   |  |
|                     | Dewatering.   |  |
|                     | Impacts on groundwater from construction.   |  |
| Section 4.4         | Prepare and implement a construction air quality management plan.   | Appendix B7 – Air Quality and Odour<br>CEMP Sub-plan   |
| Section 4.6 and 4.7 | Prepare and implement a construction noise and vibration management plan.   | Appendix B3 – Noise and Vibration Sub-<br>plan and CNVIS for Preliminary<br>Construction Works |
| Section 4.8         | Manage clearing, mulch, flora and fauna. Prepare and implement a construction flora and fauna management plan.  | Appendix B2 – Flora and Fauna<br>Management Procedure  |
| Section 4.8         | Include fauna habitat conservation measures in the CEMP. The CEMP must include provisions for compliance with the <i>Environment Protection and Biodiversity Conservation 1999 Act</i> and <i>Biodiversity Conservation Act 2016</i> where listed threatened species or migratory species are affected. | Appendix B2 – Flora and Fauna<br>Management Procedure  |
| Section 4.2         | Plan and execute the Work so as to minimise the possibility of pollution of the Site and adjoining areas from chemicals, dangerous goods and other  | Appendix B8 – Contamination CEMP<br>Sub-plan   |
|                     | potential contaminants.   | Appendix B4 – Soil and Surface Water<br>Management Procedure                                   |

| G36 Reference        | Requirement  | Relevant section of CEMP or<br>supporting documentation      |
|----------------------|--|--|
| Section 4.1          | The CEMP must include details of the management of the bunded areas including, but not be limited to, monitoring of the bunded areas, drainage requirements and procedures to meet environmental requirements and to ensure that bund capacities are maintained. | Appendix B4 – Soil and Surface Water<br>Management Procedure |
| Section 4.9 and 4.10 | Prepare and implement a construction heritage management plan to manage Aboriginal and non-Aboriginal heritage.  | Appendix B6 – Heritage Management<br>Plan                    |
| Section 4.11         | Prepare and implement a construction waste and energy management Plan.   | Appendix B9 – Waste CEMP Sub-plan                            |
| Section 4.11         | The CEMP must contain details of types and quantities of proposed material likely to be generated and proposed methods of disposal, recycling or re-use of such surplus materials.   | Appendix B9 – Waste CEMP Sub-plan                            |
| Section 4.16         | Reinstate all disturbed areas both on and off the Site.  | Appendix B4 – Soil and Surface Water<br>Management Procedure |
| Section 4.15.1       | Prepare and implement an ancillary facilities management plan.   | Appendix A4 – Site Establishment<br>Management Plan          |
| Section 4.2          | Prepare and implement a construction contaminated land management plan   | Appendix B8 – Contamination CEMP<br>Sub-plan                 |

#### Table 5: RMS G38 requirements

| G38 Reference | Requirement  | Relevant section of CEMP or<br>supporting documentation      |
|---------------|--|--|
| Section 2.1.1 | Prepare and implement a Soil Water Management Plan   | Appendix B4 – Soil and Surface Water<br>Management Procedure |
| Section 2.1.2 | <ul> <li>The SWMP must include details of the following, where relevant: <ul> <li>(a) Purpose and objectives of SWMP.</li> <li>(b) Approvals, licence requirements and relevant legislation.</li> <li>(c) Site investigation and assessment of the following: <ul> <li>i. soil properties (including dispersion properties and presence of acid sulphate soils);</li> <li>ii. rainfall records and design parameters;</li> <li>iii. waterways and other water related sensitive environments;</li> <li>iv. groundwater;</li> <li>v. possibilities of, and limitations on, water extraction.</li> </ul> </li> <li>(d) Environmental control measures, including: <ul> <li>i. responsibility for its implementation, including the names and contact details of the person(s) responsible;</li> <li>ii. resources required for its construction, monitoring, maintenance and removal;</li> <li>iii. implementation schedule for the measures, related to construction activities;</li> <li>iv. monitoring and maintenance of the environmental controls.</li> </ul> </li> <li>(e) Other associated plans, Environmental Work Method Statements (EWMS) and procedures.</li> <li>(f) Construction sediment retention basins, including details of the following: <ul> <li>i. design of the construction sediment retention basins, providing details of the approach, standards, criteria and references used in the design of the basins;</li> <li>ii. management of the basins;</li> <li>iii. management of the basins;</li> </ul> </li> </ul></li></ul> | Appendix B4 – Soil and Surface Water<br>Management Procedure |

| G38 Reference | Requirement  | Relevant section of CEMP or<br>supporting documentation      |
|---------------|--|--|
|               | <ul> <li>iv. procedures for the periodic removal and disposal of the sediment collected within the basins.</li> <li>(g) Training, including:         <ol> <li>site induction;</li> <li>environmental training;</li> <li>toolbox training.</li> <li>(h) Inspection and auditing.</li> </ol> </li> </ul>   |  |
|               | Prepare an Erosion and Sediment Control Plan (ESCP) for the Work Under the Contract  | Appendix B4 – Soil and Surface Water<br>Management Procedure |
| Section 2.2.2 | <ul> <li>The ESCP must identify all erosion and sediment control risks and describe how these will be addressed during construction.</li> <li>The ESCP must include details of the following where relevant: <ul> <li>(a) erosion and sediment control measures required:</li> <li>i. before clearing and grubbing of the Site;</li> <li>ii. before removal of topsoil and commencement of earthworks within the catchment area;</li> </ul> </li> <li>(b) how upstream water will be managed so it is not polluted by the construction activities;</li> <li>(c) method of tree removal in intermittent watercourses, leaving grasses and small understorey species undisturbed wherever possible;</li> <li>(d) scour protection measures for haul roads and access tracks when these are an erosion hazard due to either their steepness, soil erodibility or potential for concentrating runoff flow;</li> <li>(e) measures to minimise erosion and control sedimentation from stockpiles;</li> <li>(h) methods of constructing batters to assist the retention of topsoil on the batter slopes;</li> <li>(i) measures to temporarily trap sediment in median areas at regular intervals;</li> <li>(j) controls in runoff flow paths to reduce flow velocities and minimise the potential for erosion;</li> </ul> | Appendix B4 – Soil and Surface Water<br>Management Procedure |

| G38 Reference | Requirement  | Relevant section of CEMP or<br>supporting documentation   |
|---------------|--|---|
|               | <ul> <li>(k) measures for controlling waste water discharge on or around the Site from dewatering (refer to Clause 3.5), surface washing, grit blasting, saw cutting, drilling, washing vehicles and plant and any other activities which add pollutants to water;</li> <li>(l) measures to be put in place during an extended shut-down of the Site or when rainfall above a certain trigger level is predicted;</li> <li>(m) maintenance of erosion and sediment control structures including measures to restore their capacity;</li> <li>(n) inspection and auditing program for all erosion and sediment controls to ensure that no disturbed area is left without adequate erosion and sediment controls.</li> </ul> |   |
| Section 2.3   | Prepare and implement a Water Quality Monitoring Program   | Pre-construction monitoring of<br>waterways within the Project location<br>will continue (as per the EIS<br>monitoring) throughout the preliminary<br>construction stage. |
| Section 3.5   | Establish erosion control and sediment capture measures, and maintain them regularly, to divert offsite stormwater, manage onsite stormwater runoff and stabilise stockpiles in accordance with RMS Technical Guideline EMS-TG-010: Stockpile Site Management and the BLUE BOOK guidelines.  | Appendix B4 – Soil and Surface Water<br>Management Procedure  |
| Section 3.4.1 | Conduct any dewatering activities in a manner that does not cause erosion and/or pollute the environment.  | Appendix B4 – Soil and Surface Water<br>Management Procedure  |
| Section 3.4.2 | Prepare a procedure for all identified dewatering activities as part of the SWMP or ESCP.  | Appendix B4 – Soil and Surface Water<br>Management Procedure  |
| Section 3.4.5 | <ul> <li>Keep records of the following: <ul> <li>i. dewatering procedure;</li> <li>ii. date and time for each discharge at each location;</li> <li>iii. water quality test results for each discharge;</li> <li>iv. personnel approving the dewatering activities;</li> <li>v. evidence of discharge monitoring, or risk assessment and mitigation measures used to eliminate the risks of pollution or erosion;</li> </ul> </li> </ul>  | Appendix B4 – Soil and Surface Water<br>Management Procedure  |

| G38 Reference | Requirement  | Relevant section of CEMP or<br>supporting documentation                         |
|---------------|--|---|
|               | vi. any other EPA licence requirements where issued.   |   |
| Section 3.7.1 | Where work is required within waterways, prepare an Environmental Work<br>Method Statement (EWMS) for the work(s). | No works under this CEMP will be<br>conducted within waterways.<br>CEMP Table 5 |

#### Table 6: RMS G40 requirements

| G40 Reference | Requirement  | Relevant section of CEMP or<br>supporting documentation |  |  |
|---------------|--|---|--|--|
| Section 2.4   | <ul> <li>Before clearing commences, identify the limits of clearing by clearly visible markers placed at 25m intervals on each side of the road formation and bridges as shown on the Drawings. Also provide a report which: <ul> <li>(a) includes a statement from an Ecologist that identifies the species and location of any weeds growing anywhere in the road reserve over the length to be cleared and grubbed;</li> <li>(b) identifies all locations of threatened flora species and trees which have been marked or otherwise identified for preservation; and</li> <li>(c) lists any trees outside the limits of clearing which are unsound and likely to fall upon the roadway or onto private property.</li> </ul> </li> </ul> | Appendix B2 – Flora and Fauna<br>Management Procedure   |  |  |
| Section 2.4   | Plan and carry out all operations to ensure that there is no damage to any trees outside the limits of clearing specified.   | Appendix B2 – Flora and Fauna<br>Management Procedure   |  |  |
| Section 2.4   | Trees nominated in (c) above must be marked and identified in the clearing and grubbing plan in a manner which allows them to be identified as one of the listed trees and whether pruning or removal is recommended. Areas of weed infestation identified in the ecologist report (Clause 2.4 (a) must be marked).  | Appendix B2 – Flora and Fauna<br>Management Procedure   |  |  |
| Section 2.4   | Weeds must be removed and disposed of in accordance with the requirements of the local Council.  | Appendix B2 – Flora and Fauna<br>Management Procedure   |  |  |

| G40 Reference | Requirement   | Relevant section of CEMP or<br>supporting documentation  |
|---------------|---|--|
| Section 2.4   | <ul> <li>Take protective measures during the operations of clearing and road construction to avoid damaging or destroying threatened flora species and trees which have been marked or otherwise identified for preservation. These measures must include but not be limited to: <ul> <li>i. fencing around trees clear of the canopy line;</li> <li>ii. ensuring no materials are stockpiled and no vehicles are parked under the canopy;</li> <li>iii. avoiding excavation or the placing of fill near any tree without advice from an ecologist; and</li> <li>iv. routing haul roads and access tracks clear of the canopy.</li> </ul> </li> </ul>   | Appendix B2 – Flora and Fauna<br>Management Procedure  |
| Section 4.1   | <ul> <li>Native trees removed during clearing and grubbing may be used in conjunction with soil erosion and sediment control measures. All other native trees removed must be converted to mulch and stockpiled for use during landscape planting under the Contract. This requirement is subject to the following constraints:         <ul> <li>(a) Where the native vegetation on Site is insufficient to provide the quantities of mulch needed during landscape planting, all native trees removed during clearing and grubbing must be mulched and stockpiled. Under no circumstances must the extent of clearing and grubbing be extended or weeds or exotic species used to make up any shortfall of mulch;</li> <li>(b) Where the quantity of mulch produced exceeds the quantity required under the Contract, the excess mulch will become your property and must be removed from the Site.</li> </ul> </li> </ul> | Appendix B2 – Flora and Fauna<br>Management Procedure<br>Mulch is not expected to be reused on<br>Project. |
| Section 5     | Unless otherwise specified, all materials cleared, pruned and grubbed in accordance with this Specification shall become your property and must be removed from the site for recycling or disposal. Disposal must be in accordance with your Waste Management Plan.   | Appendix B2 – Flora and Fauna<br>Management Procedure<br>Appendix B9 – Waste CEMP Sub-plan                 |

#### Table 7: G36, G38 and G40 specification hold and witness points

| Specification | Clause | Туре          | Description   | Relevant section of<br>CEMP or supporting<br>documentation  |
|---------------|--------|---------------|---|---|
| G36           | 3.1    | Hold<br>Point | Commencement of Work not previously addressed by CEMS and CEMP documents and authorised by earlier Hold Point release.  | CEMP Section 3.13.1   |
| G36           | 3.2.2  | Hold<br>Point | Commencement of any activity requiring an approval, licence and/or permit from an appropriate authority.  | CEMP Section 3.13.1   |
| G36           | 3.10   | Hold<br>Point | Any activity that causes or has the potential to cause harm to the Environment due to your failure to meet your environmental obligations under the Deed.   | Section 3.8 of CEMP<br>& Appendix A7 –<br>TfNSW<br>Environmental<br>Incident Classification<br>and Reporting<br>Procedure |
| G36           | 4.2.4  | Hold<br>Point | Activities within the vicinity of actual or suspected contaminated land.  | Appendix B8 –<br>Contamination CEMP<br>Sub-plan (Section<br>4.2.1 and Annexure<br>A)                                      |
| G36           | 4.2.5  | Hold<br>Point | Activities within the vicinity of actual or suspected Contaminated land.<br>(Where the Work Method Statement is to be prepared by the Contractor)<br>(Where there is an unexpected contamination find identified in accordance with the Work<br>Method Statement) | Appendix B8 –<br>Contamination CEMP<br>Sub-plan (Section<br>4.2.1 and Annexure<br>A)                                      |
| G36           | 4.2.6  | Hold<br>Point | Activities associated with the remediation of actual or suspected Contaminated land.  | Appendix B8 –<br>Contamination CEMP<br>Sub-plan (Section<br>4.2.1 and Annexure<br>A)                                      |

| Specification | Clause | Туре             | Description  | Relevant section of<br>CEMP or supporting<br>documentation   |
|---------------|--------|------------------|--|--|
| G36           | 4.7    | Hold<br>Point    | Commencement of blasting, pile driving, excavation by hammering or ripping, dynamic compaction or demolition operations or any other activities which may cause damage through vibration or air blast. | Appendix B3 – Noise<br>and Vibration CEMP<br>Sub-plan and CNVIS<br>for Preliminary<br>Construction Works                       |
| G36           | 4.11.4 | Hold<br>Point    | Transport of waste generated under the Contract to the "waste site".   | Appendix B9 – Waste<br>CEMP Sub-plan<br>(Section 4.4.4)  |
| G36           | 4.13   | Hold<br>Point    | Working in or near the environmentally sensitive areas.  | CEMP Section 3.3.2;<br>Appendix A6 –<br>Sensitive Area Plans;<br>& Appendix B2 –<br>Flora and Fauna<br>Management<br>Procedure |
| G36           | 4.15.2 | Hold<br>Point    | Taking possession of any land nominated or authorised by the Principal for use for the Contractor's site facilities.   | D&C Deed Exhibit H<br>(Site Access<br>Schedule)  |
| G38           | 3.1.1  | Hold<br>Point    | Commencement of work requiring the installation of erosion control and sediment capture measures not previously addressed by ESCP and authorised by earlier Hold Point release.                        | Appendix B4 – Soil<br>and Surface Water<br>Management<br>Procedure   |
| G38           | 3.1.1  | Witness<br>Point | Disturbance of the existing surface on a section of the Site, other than for the installation of erosion and sediment capture measures.  | Appendix B4 – Soil<br>and Surface Water<br>Management<br>Procedure   |
| G40           | 2.4    | Hold<br>Point    | Clearing any area of work.   | Appendix B2 – Flora<br>and Fauna<br>Management<br>Procedure  |

## Requirements of Environmental Management Plan Guideline (DIPNR, 2004) (as per MCoA C1)

| Does Your EMP Contain                                  | Yes          | Section                          |
|--|--------------|----------------------------------|
| Background (EMP Guideline Section 4.3.1)               |              |                                  |
| Introduction   | ✓            | Section 1                        |
| Project Description                                    | $\checkmark$ | Section 1.3                      |
| EMP Context  | $\checkmark$ | Section 1.1                      |
| EMP Objectives   | ✓            | Section 1.4                      |
| Environmental Policy                                   | ✓            | Appendix A3                      |
| Environmental Management (EMP Guideline Section 4.3.2) |              |                                  |
| Environmental Management Structure & Responsibility    | ✓            | Section 1.5<br>Section 3.4       |
| Approval and Licensing Requirements                    | $\checkmark$ | Appendix A1                      |
| Reporting  | √            | Section 3.9.5                    |
| Environmental Training                                 | √            | Section 3.6                      |
| Emergency Contacts and Response                        | ✓            | Emergency and key contacts table |
| mplementation (EMP Guideline Section 4.3.3)            |              |                                  |
| Risk Assessment  | √            | Appendix A2                      |
| Environmental Management Activities and Controls       | ✓            | Appendix A1<br>CEMP Sub-plans    |
| Environmental Control Plans or Maps                    | $\checkmark$ | CEMP Sub-plans                   |
| Environmental Schedules                                | ✓            | CEMP Sub-plans                   |

| Does Your EMP Contain                               | Yes          | Section  |  |  |  |  |
|---|--------------|--|--|--|--|--|
| Monitoring and Review (EMP Guideline Section 4.3.4) |              |  |  |  |  |  |
| Environmental Monitoring                            | $\checkmark$ | Section 3.9                                      |  |  |  |  |
| Environmental Auditing                              | $\checkmark$ | Section 3.9                                      |  |  |  |  |
| Corrective Action                                   | √            | Section 3.7.3<br>Section 3.9.1                   |  |  |  |  |
| EMP Review  | $\checkmark$ | Section 3.12<br>Section 3.13.1<br>Section 3.13.2 |  |  |  |  |

## Legal requirements

Table 8: Legal register

| Act  | Activity /<br>aspect                  | Requirement   | Reference               | Division 5.2 applicability | Relevant section of<br>CEMP or supporting<br>documentation  |
|--|---------------------------------------|---|-------------------------|----------------------------|---|
| General  |                                       |   |                         |                            |   |
| Environmental Planning<br>and Assessment Act,<br>1979 (EP&A Act) | All                                   | The Project has been declared Critical State<br>Significant Infrastructure (CSSI) by virtue of<br>Schedule 5, clause 11 of <i>State Environmental</i><br><i>Planning Policy (State and Regional</i><br><i>Development) 2011.</i><br>Comply with the terms Minister for Planning's<br>approval for the project. Obtain the Minister's<br>approval for any project modifications that are<br>not consistent with the planning approval. | S5.13<br>S5.14<br>S5.25 | Yes                        | Section 1.1 of CEMP   |
| Water  |                                       |   |                         |                            |   |
| Protection of the<br>Environment Operations<br>Act 1997          | Water pollution                       | Do not cause water pollution (other than to a sewer), except in accordance with the conditions of an Environment Protection Licence.  | S120<br>S122            | Yes                        | Appendix B4 – Soil and<br>Surface Water<br>Management Procedure                                       |
| Noise  |                                       |   |                         |                            |   |
| Protection of the<br>Environment Operations<br>Act 1997          | Plant<br>maintenance<br>and operation | Do not operate plant if it emits noise caused by poor maintenance or operation.   | S139                    | Yes                        | Appendix B3 – Noise and<br>Vibration CEMP Sub-plan<br>and CNVIA for Preliminary<br>Construction Works |
| Protection of the<br>Environment Operations<br>Act 1997          | Materials<br>management               | Do not cause noise by failing to properly and efficiently deal with materials.  | S140                    | Yes                        | Appendix B3 – Noise and<br>Vibration CEMP Sub-plan<br>and CNVIA for Preliminary<br>Construction Works |

| Act   | Activity /<br>aspect       | Requirement  | Reference        | Division 5.2<br>applicability | Relevant section of<br>CEMP or supporting<br>documentation      |
|---|----------------------------|--|------------------|-------------------------------|---|
|   |                            |  |                  |                               |   |
| Contaminated material                                   |                            |  |                  |                               |   |
| Protection of the<br>Environment Operations<br>Act 1997 | Land pollution             | Do not cause or permit land pollution other than<br>under authority of a licence or regulation.<br>(However it is not a land pollution offence to<br>place virgin excavated natural material or lawful<br>pesticides and fertilisers on land, or by placing<br>matter on land that has been notified to the<br>EPA as an unlicensed landfill and which is<br>operated in accordance with the regulations.)   | S142A –<br>S142E | Yes                           | Appendix B4 – Soil and<br>Surface Water<br>Management Procedure |
| Contaminated Land<br>Management Act 1997                | Reporting<br>contamination | <ul> <li>Notify the EPA if;</li> <li>Contaminants exceed thresholds contained in guidelines or the regulations where contamination has entered or will foreseeably enter neighbouring land, the atmosphere, groundwater or surface water.</li> <li>Contaminants in soil are equal to or exceed guideline levels with respect to the current or approved use of the land.</li> <li>Contamination meets other criteria that may be prescribed by the regulations.</li> </ul> | S60              | Yes                           | Appendix B8 –<br>Contamination CEMP Sub-<br>plan                |
| Biodiversity  |                            |  |                  |                               |   |
| Biodiversity<br>Conservation Act 2016                   | Fauna                      | Do not harm any animal that is; of a threatened<br>species, that is part of a threatened ecological<br>community or is a protected animal, unless<br>authorised under other legislation (e.g. planning<br>approval).   | S2.1<br>S2.8     | Yes                           | Appendix B2 – Flora and<br>Fauna Management<br>Procedure        |

| Act  | Activity /<br>aspect               | Requirement  | Reference                        | Division 5.2 applicability | Relevant section of<br>CEMP or supporting<br>documentation |
|--|------------------------------------|--|----------------------------------|----------------------------|--|
| Biodiversity<br>Conservation Act 2016  | Habitat                            | Do not damage habitat of a threatened species<br>or ecological community unless authorised<br>under other legislation (e.g. planning approval).  | S2.4<br>S2.8                     | Yes                        | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| Biodiversity<br>Conservation Act 2016  | Biodiversity                       | Do not damage declared areas of outstanding<br>biodiversity value unless authorised under other<br>legislation (e.g. planning approval).   | S2.3<br>S2.8                     | Yes                        | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| Biodiversity<br>Conservation Act 2016  | Flora                              | Do not pick a plant that is; of a threatened<br>species, that is part of a threatened ecological<br>community or is a protected plant, unless<br>authorised under other legislation (e.g. planning<br>approval). | S2.2<br>S2.8                     | Yes                        | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| Biosecurity Act 2015   | Weeds                              | Manage weeds on site in accordance with the relevant Regional Strategic Weed Management Plan.  | S22                              | Yes                        | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| <i>Biosecurity Regulation</i><br>2017  | Pests and<br>Diseases              | Notify the presence any pest or disease listed<br>in Schedule 1 of the Biosecurity Regulation<br>2014, within 1 working day after suspecting or<br>becoming aware of the pest or disease.                        | Regulation<br>cl.7<br>Schedule 1 | Yes                        | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| Fisheries Management<br>Act 1994   | Fish passage                       | Do not block fish passage without a permit   | S219                             | No                         | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| Environment Protection<br>Biodiversity<br>Conservation Act, 1999<br>(Commonwealth) | Flora and<br>fauna<br>conservation | Do not kill, injure or take a member of a listed threatened species without a permit.  | Part 13                          | Yes                        | Appendix B2 – Flora and<br>Fauna Management<br>Procedure   |
| Waste  |                                    |  |                                  |                            |  |

| Act   | Activity /<br>aspect     | Requirement   | Reference  | Division 5.2 applicability | Relevant section of<br>CEMP or supporting<br>documentation |
|---|--------------------------|---|------------|----------------------------|--|
| Protection of the<br>Environment Operations | Waste and transportation | Do not undertake a scheduled waste activity<br>unless in accordance with an environmental   | Part 3.2   | Yes                        | Appendix B9 - Waste<br>CEMP Sub-plan                       |
| Act 1997                                    |                          | protection licence.   | Schedule 1 |                            |  |
|   |                          | A licence must be obtained when construction<br>and demolition wastes are applied to land<br>under certain circumstances. This includes the<br>reincorporation of crushed road base material<br>back into roads and the placing of excess fill<br>material onto properties. A licence is not<br>required if the material:   |            |                            |  |
|   |                          | <ul> <li>Is VENM.</li> <li>Does not exceed 200 tonnes in the<br/>Sydney, Newcastle and Wollongong<br/>areas, or 20,000 tonnes outside these<br/>areas.</li> <li>Is covered by a "general exemption".<br/>Current exempted materials are ENM,<br/>recycled aggregates and raw mulch.<br/>These exemptions are conditional and<br/>require some chemical testing of<br/>materials before they are placed onto<br/>land.</li> <li>A licence must be obtained if more than<br/>2,500 tonnes (or cubic metres) is stored<br/>on a stockpile site at any one time, or<br/>more than 30,000 tonnes of waste is<br/>received per year from off site.</li> </ul> |            |                            |  |
|   |                          | Only transport waste to a facility that can lawfully accept the waste.  | S143       | Yes                        | Appendix B9 - Waste<br>CEMP Sub-plan                       |

| Act  | Activity /<br>aspect                  | Requirement  | Reference            | Division 5.2 applicability | Relevant section of<br>CEMP or supporting<br>documentation                               |
|--|---------------------------------------|--|----------------------|----------------------------|--|
|  |                                       | Do not dispose of waste in a manner that harms or is likely to harm the environment.   | S115                 | Yes                        | Appendix B9 - Waste<br>CEMP Sub-plan   |
| Protection of the<br>Environment Operations<br>(Waste) Regulation 2005 | Waste and transportation              | Comply with general requirements for the<br>transport of waste. For example, any vehicle<br>used by the person to transport waste must be<br>kept in a clean condition and be maintained so<br>as to prevent spillage of waste. For some<br>wastes only licensed transporters can be used. | Regulation<br>cl.49  | Yes                        | Appendix B9 - Waste<br>CEMP Sub-plan   |
|  |                                       | Comply with record keeping requirements in relation to the transport of certain types of waste.  | Regulation<br>Part 3 | Yes                        | Appendix B9 - Waste<br>CEMP Sub-plan   |
| Heritage   |                                       |  |                      |                            |  |
| Heritage Act 1977  | Heritage                              | Notify the heritage Council on discovery of a relic  | S146                 | Yes                        | TfNSW Standard Heritage<br>Management Procedure<br>Section 3.8 of CEMP &,<br>Appendix A7 |
| National Parks and   | Aboriginal<br>places and<br>objects   |  | S86                  | No                         | Section 3.8 of CEMP &,   |
| Wildlife Act 1974  |                                       | <b>3</b>   | S90                  |                            | Appendix A7  |
|  |                                       | Notify the NPWS within reasonable time of becoming aware of the location or discovery of certain Aboriginal objects.   | S89A                 | Yes                        | Section 3.8 of CEMP &,<br>Appendix A7  |
| Aboriginal and Torres<br>Strait Islander Heritage                      | Protection of<br>areas and<br>objects | Report any discovery of Aboriginal remains to the Federal Minister for the Environment and Heritage.   | S20                  | Yes                        | Section 3.8 of CEMP &,<br>Appendix A7  |

| Act   | Activity /<br>aspect                | Requirement  | Reference  | Division 5.2<br>applicability | Relevant section of<br>CEMP or supporting<br>documentation   |  |  |
|---|-------------------------------------|--|------------|-------------------------------|--|--|--|
| Protection Act 1984<br>(Commonwealth)                   |                                     | Comply with the provisions of any declaration in relation to a significant Aboriginal area or object.  |            | Yes                           | Section 3.8 of CEMP &,<br>Appendix A7  |  |  |
| General   |                                     |  |            |                               |  |  |  |
| Protection of the<br>Environment Operations<br>Act 1997 | Harming the<br>environment          | o not risk harming the environment by wilfully<br>r negligently:<br>sposing of waste unlawfully.<br>ausing any substance to leak, spill or<br>herwise escape (whether or not from a<br>ontainer); or<br>mitting an ozone depleting substance |            | Yes                           | Appendix B9 - Waste<br>CEMP Sub-plan, Appendix<br>B4 – Soil and Surface<br>Water Management<br>Procedure |  |  |
| Protection of the<br>Environment Operations<br>Act 1997 | Control<br>equipment                | Properly and efficiently maintain and operate<br>any installed pollution control equipment<br>(including monitoring devices).  | S167       | Yes                           | Appendix B7 - Air Quality<br>and Odour CEMP Sub-plan   |  |  |
| Protection of the<br>Environment Operations<br>Act 1997 | Notification of pollution incidents | Notify the EPA immediately of pollution incidents where material harm to the environment is caused or threatened.  | S148       | Yes                           | Section 3.8 of CEMP &,<br>Appendix A7  |  |  |
| Protection of the<br>Environment Operations<br>Act 1997 |                                     | Do not carry out or allow an activity listed in<br>Schedule 1, or carry out work to enable such an<br>activity, unless the premises are licensed by the<br>EPA.  | S47<br>S48 | Yes                           | Environment Protection<br>Licence (EPL)  |  |  |
|   |                                     | This applies to:   |            |                               |  |  |  |
|   |                                     | road construction: meaning the construction,<br>widening or re-routing of roads if it results in the<br>existence of 4 or more traffic lanes (other than<br>bicycle lanes or lanes used for entry or exit) for                               |            |                               |  |  |  |

| Act  | Activity /<br>aspect        | Requirement  | Reference                       | Division 5.2<br>applicability | Relevant section of<br>CEMP or supporting<br>documentation      |
|--|-----------------------------|--|---------------------------------|-------------------------------|---|
|  |                             | 1 kilometres of their length in the metropolitan<br>area, or 5 kilometres in length in any other<br>area, where the road is classified, or proposed<br>to be classified, as a freeway or tollway under<br>the <i>Roads Act 1993</i> .  |                                 |                               |   |
| Environmentally<br>Hazardous Chemicals<br>Act, 1985                              | Hazards and risks           | Obtain a licence to undertake prescribed<br>activities involving environmentally hazardous<br>chemicals or declared chemical wastes.   | S28                             | Yes                           | Appendix B4 - Soil and<br>Surface Water<br>Management Procedure |
| Dangerous Goods (Road<br>and Rail Transport) Act<br>2008                         | Hazards and risks           | Ensure that dangerous goods are transported in a safe manner.  | S9                              | Yes                           | Appendix B4 - Soil and<br>Surface Water<br>Management Procedure |
| Pesticides Act 1999  | Hazards and risks           | Use pesticides in an environmentally sensitive<br>manner.<br>Do not use an unregistered pesticide without a<br>permit.<br>Read the label or permit for the pesticide.<br>Use registered pesticides in accordance with<br>instructions on the label.<br>Do not use any restricted pesticide unless<br>authorised by a certificate of competency or a<br>pesticide control order under the Act.<br>Compliance with pesticide codes of practice is<br>required. | S12<br>S13<br>S14<br>S15<br>S17 | Yes                           | Appendix B2 – Flora and<br>Fauna Management<br>Procedure        |
| National Greenhouse<br>and Energy Reporting<br>Act, 2007 and<br>Regulations 2008 | Greenhouse<br>gas emissions | Accounting and reporting of greenhouse gases<br>produced and energy consumed during<br>construction. Applicability dependent on<br>thresholds.   | -                               | Yes                           | Sustainability Management<br>Plan                               |



# **Appendix A2**

## Aspects and Impacts Register

M6 Stage 1: Preliminary construction including commencement activities

October 2021



This Environmental Aspects and Impacts Register has been prepared by CPB Ghella UGL Engineering (CGU) Joint Venture, to supplement the Environmental Risk Analysis conducted as part of the Environmental Assessment (EA).

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

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

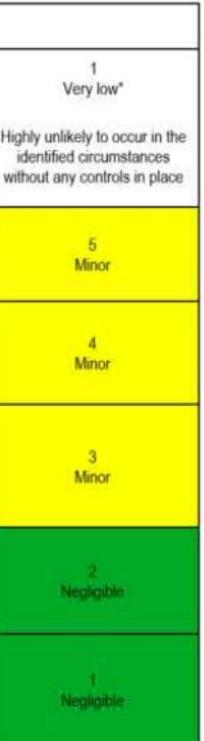
- The environmental aspect;
- Relative scale of the potential impact;
- Type of potential impact; and
- Likelihood of occurrence.

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

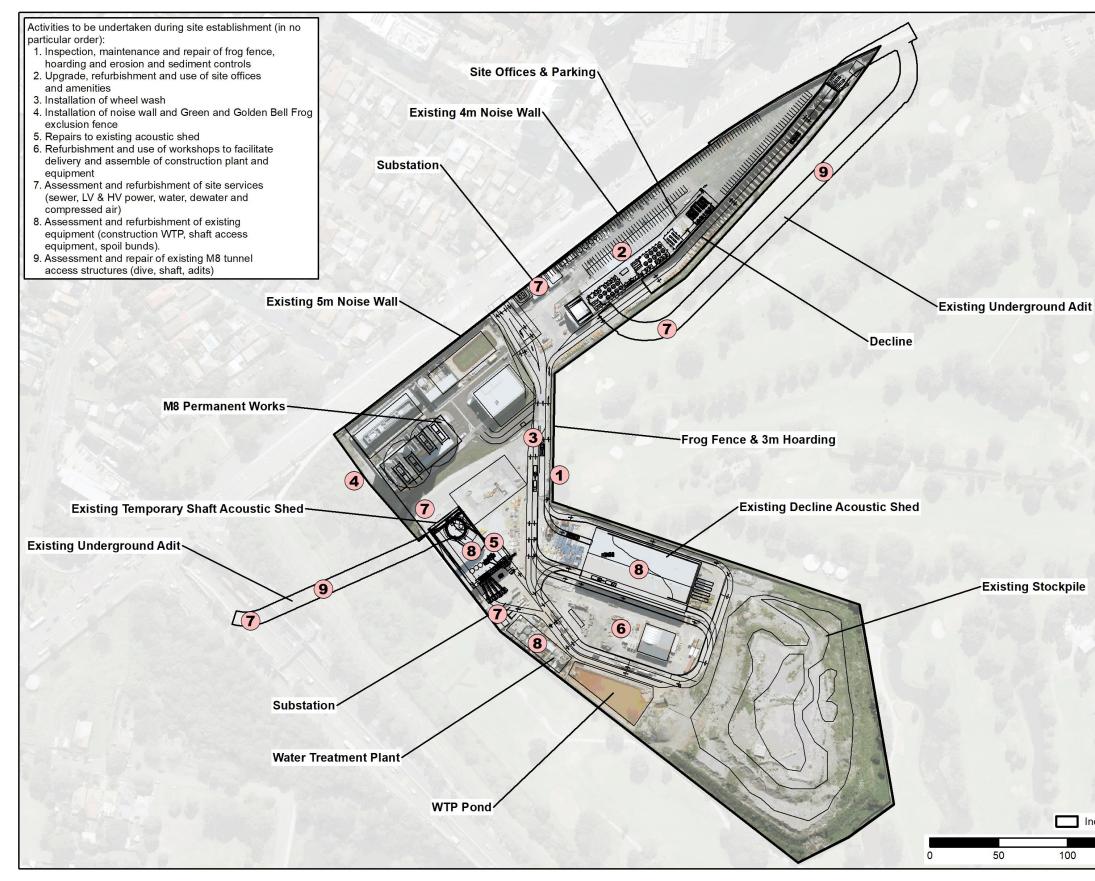
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|   |  |   |   | LIKELIHOOD  |   |           |
|---|--|---|---|---|---|-----------|
| Risk Analysis<br>Risk Classification = Consequence x Likelihood |  | 5<br>Very high*<br>Almost certain to happen<br>i.e. could occur daily or<br>more frequently | 4<br>High*<br>Strong anecdotal<br>evidence that it is likely to<br>occur in the identified<br>circumstances without<br>any controls in place; | 3<br>Medium*<br>May occur in the identified<br>circumstances without any<br>controls in place | 2<br>Low*<br>Could occur at some time<br>in the identified<br>circumstances without any<br>controls in place but not<br>expected; | Hig<br>wi |
|   | 5 Very large<br>Major irreversible environmental harm<br>on-site and/or off-site damage.   | 25<br>Criticael   | 20<br>Significant   | 15<br>Significant   | 10<br>Moderate  |           |
|   | 4 Large<br>Major on-site and/or off-site impacts with<br>clean up or remedy requires significant<br>effort.  | 20<br>Significant   | 16<br>Significant   | 12<br>Moderate  | 8<br>Minor  |           |
| CONSEQUENCE   | 3 Medium<br>Moderate on-site and/or off-site impacts<br>(but no significant irreversible damage)<br>with clean up or remedy work incurring<br>a moderate level of effort | 15<br>Significant   | 12<br>Moderate  | 9<br>Moderate   | 6<br>Minor  |           |
| Ū   | 2 Small<br>Treatable on-site impact with clean up<br>or remedy work incurring a small level<br>of effort.  | 10<br>Moderate  | 8<br>Minor  | 6<br>Minor  | 4<br>Minor  |           |
|   | 1 Very small<br>Reversible and insignificant environmental<br>impact.  | 5<br>Minor  | 4<br>Minor  | 3<br>Minor  | 2<br>Negligible   |           |

Figure 1 Risk assessment matrix



## C1 Arncliffe construction ancillary facility



#### Figure 2 Stage 1 Preliminary construction activities at C1 Arncliffe construction ancillary facility



<sup>5 |</sup> M6 Stage 1 CEMP: Preliminary construction including commencement activities
Appendix A2: Aspects and Impacts Register
20 October 2021 Version 01
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| Issue                 | Construction activity/aspect  | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|-----------------------|---|---|-----------------------------------|---|---------------------------------------|--|
| Traffic and<br>Access | <ul> <li>Light vehicles entering site:         <ul> <li>Anticipated peak daily<br/>light vehicle<br/>movements (i.e.<br/>movement of vehicle in<br/>and out of site): 68</li> <li>Workforce, staff and<br/>visitors vehicles</li> <li>Delivery of small-scale<br/>construction materials<br/>in vans</li> </ul> </li> <li>Heavy vehicles entering site:         <ul> <li>Anticipated peak daily<br/>heavy vehicle<br/>movements (i.e.<br/>movement of vehicle in<br/>and out of site): 30</li> <li>Delivery of plant and<br/>equipment on semi-<br/>trailers, some oversized</li> <li>Delivery of construction<br/>materials on flatbed<br/>trucks</li> <li>Delivery of concrete</li> </ul> </li> </ul> | Increased vehicle movements   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>The preliminary construction and commencement activities undertaken at C1 will not include activities which impact the operation of the road network</li> <li>Spoil haulage will not be undertaken during preliminary construction including commencement activities</li> <li>All utility services are connected to the existing C1 construction ancillary facility and there are no foreseeable changes which would require works to be undertaken outside of the C1 ancillary facility</li> <li>Access to C1 will be via the existing access point (Marsh Street):</li> <li>When travelling in north bound lane, access to site will only occur from designated right turning lane at signalised intersection</li> <li>When travelling in south bound lane, access to site can occur in far-left hand lane</li> <li>Left hand turn to exit site only</li> <li>No access from Flora Street</li> <li>All site personnel would undergo a site induction and ongoing toolbox talks detailing traffic, parking, transport and access management measures</li> <li>Vehicle Management Plan will be distributed to all subcontractors who need to attend site</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of Construction Access and Parking Strategy</li> </ul> | 6 (minor)                             | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure which includes:</li> <li>Anticipated peak daily vehicle<br/>movements to C1</li> <li>Development of Vehicle Management<br/>Plans</li> <li>Access arrangements for C1</li> <li>Communication and training to be<br/>undertaken</li> </ul>  |
|                       | <ul> <li>and shotcrete via<br/>concrete agitator</li> <li>Delivery and removal of<br/>portable buildings</li> <li>Fuel tankers<br/>distributing fuel and<br/>refilling at designated<br/>refuelling area</li> <li>Other: <ul> <li>Street sweeper<br/>routinely maintaining<br/>internal haul roads and<br/>Marsh Street</li> <li>Special purpose trucks<br/>servicing waste skips<br/>and front-loading bins</li> <li>Vacuum trucks<br/>conducting service<br/>investigation, cleaning<br/>of drains, pipes and<br/>services within<br/>construction ancillary</li> </ul> </li> </ul>   | Out of hour works that could<br>disrupt sensitive receivers<br>including:<br>• Deliveries of plant and<br>equipment | 12 (moderate)<br>12 (moderate)    | <ul> <li>Direct:</li> <li>Out of hour deliveries may be unloaded within existing acoustic sheds and in the mechanical workshop only</li> <li>Impacted sensitive receivers to be notified of any OOH deliveries</li> <li>The OOHW and Construction Fatigue Protocol to be implemented Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan</li> <li>Direct:</li> <li>Parking is available on site for workforce, staff and visitors</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that detail parking and transport management measures</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic</li> </ul>   | 6 (minor)<br>7 (minor)                | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure:         <ul> <li>Section 2.2 Road occupancy licenses</li> <li>Section 2.6 Communication and<br/>training</li> </ul> </li> <li>Appendix B3 Noise and Vibration Preliminary<br/>Sub-plan:         <ul> <li>Appendix C OOHW and Construction<br/>Fatigue Protocol</li> <li>Appendix F CNVIA preliminary<br/>construction including commencement<br/>activities</li> </ul> </li> <li>Community Communication Strategy</li> <li>Appendix B1 Traffic and Access Management<br/>Procedure:             <ul> <li>Section 2.6 Communication and<br/>training</li> </ul> </li> </ul> |

6 | M6 Stage 1 CEMP: Preliminary construction including commencement activities
 Appendix A2: Aspects and Impacts Register
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| Issue              | Construction activity/aspect  | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk lev<br>followin<br>mitigatio |
|--------------------|---|---|-----------------------------------|---|-----------------------------------|
|                    |   | Vehicles using local roads  | 12 (moderate)                     | <ul> <li>Implementation of Construction Parking and Access Strategy.</li> <li>Direct: <ul> <li>All construction traffic will use the most direct route to the closest arterial and motorway network to minimise impacts on local roads</li> <li>No access to C1 ancillary facility from Flora Street</li> <li>Minimise local road closures and maintain adequate property access Indirect:</li> </ul> </li> </ul>   | 6 (mino                           |
|                    |   |   |                                   | <ul> <li>Implementation of management measures outlined in the Appendix B1 Traffic<br/>and Access Management Procedure</li> <li>Implementation of Construction Access and Parking Strategy</li> </ul>   |                                   |
| Flora and<br>Fauna | <ul> <li>Inspection and<br/>maintenance of erosion and<br/>sediment controls and frog<br/>fence on boundary of C1<br/>construction ancillary facility</li> <li>Installation of hoarding and<br/>frog fence in Lot 2E<br/>(adjacent to M8 Motorway<br/>Operations Centre)</li> <li>Activities being undertaken<br/>within the existing C1<br/>construction ancillary facility</li> </ul> | <ul> <li>Unexpected encounter of<br/>Green and Golden Bell<br/>Frog (GGBF) while<br/>inspecting and maintaining<br/>erosion and sediment<br/>controls and frog fence</li> <li>Unexpected encounter of<br/>GGBF while installing<br/>hoarding and frog fence in<br/>Lot 2E</li> <li>Unexpected encounter of<br/>GGBF while undertaking<br/>activities within C1<br/>construction ancillary<br/>facility</li> <li>Spread of Chytrid fungus</li> </ul> | 12 (moderate)                     | <ul> <li>Direct:</li> <li>All Stage 1 Preliminary Construction activities are to take place within C1 boundary</li> <li>A No-Go Zone will be established outside the C1 boundary. Entry to No-Go Zone will be managed through a permit system: <ul> <li>Hygiene practices will be enforced before entering No-Go Zone to prevent the risk of spreading Chytrid Fungus</li> </ul> </li> <li>Boundary controls including frog fence are to be inspected and maintained</li> <li>Frog fence must be installed in accordance with the design outlined in the Green and Golden Bell Frog Plan of Management</li> <li>If a GGBF is encountered, the GGBF Stop Works Procedure must be implemented immediately</li> <li>Workforce and staff members to be educated on GGBF, the risks posed to this species and control measures to be implemented on site through inductions and information posters</li> <li>Frog handling training (by Project Herpetologist) will be undertaken with workforce and staff who undertake frog fence inspection and maintenance activities</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B2 Flora and Fauna Management Procedure.</li> <li>Implementation of Green and Golden Bell Frog Plan of Management.</li> </ul> | 6 (mino                           |
|                    |   | Encountering fauna within C1<br>(including injured fauna)   | 8 (minor)                         | <ul> <li>Direct:</li> <li>If fauna is encountered, the Fauna Handling Procedure will be implemented.</li> <li>Boundary controls including frog exclusion fence, hoarding and noise walls are to be inspected, maintained and any gaps rectified immediately.</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B2 Flora and Fauna Management Procedure.</li> </ul>   | 3 (mino                           |
|                    |   | Spread of weeds   | 8 (minor)                         | <ul> <li>Direct:</li> <li>The application of pesticides will be modified, reduced or controlled during high or unfavourable wind conditions where wind can carry pesticides beyond the C1 project boundary</li> </ul>   | 6 (Mino                           |

| Risk level<br>ollowing<br>nitigation | Management Documents / Training<br>Required   |
|--------------------------------------|---|
|                                      |   |
| 6 (minor)                            | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure which includes:</li> <li>Access arrangements for C1</li> <li>Communication and training which would be<br/>undertaken</li> </ul>   |
| 6 (minor)                            | Appendix B2 Flora and Fauna Management<br>Procedure which contains:<br>• GGBF Stop Works Procedure<br>CEMP Section 3.6 Competence, training and<br>awareness:<br>• Inductions<br>• Inductions<br>• Frog handling training<br>• Information posters (SEPs)<br>Green and Golden Bell Frog Plan of<br>Management |
| 3 (minor)                            | Appendix B2 Flora and Fauna Management<br>Procedure which contains:<br>• Fauna Handling Procedure   |
| 6 (Minor)                            | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> </ul>  |

| Issue                  | Construction activity/aspect  | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|------------------------|---|---|-----------------------------------|---|---------------------------------------|--|
|                        |   | Light spill from construction ancillary facility impacting fauna  | 9 (moderate)                      | <ul> <li>An Environmental Work Method Statement will be developed on the application of pesticides and activity carried out in accordance with this EWMS</li> <li>Indirect:         <ul> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Implementation of management measures outlined in the Weed Management Procedure found in Appendix B2 Flora and Fauna Management Procedure</li> <li>Implementation of management measures outlined in the EWMS</li> </ul> </li> <li>Direct:         <ul> <li>Lights are to be directed down and away from Kogarah Golf Course</li> <li>Where required, shields are to be placed on lights to direct light down into compound</li> <li>Lighting inspected regularly during environmental inspections or during noise monitoring to ensure light spill measures are effective</li> <li>Implementation of management measures outlined in Appendix A4 Site Establishment Management Plan</li> </ul> </li></ul>  | 3 (minor)                             | <ul> <li>Appendix A Air Quality Monitoring<br/>Program</li> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:         <ul> <li>Weed Management Procedure</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use of<br/>Work Packs (Table 6)</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities:         <ul> <li>Section 3.9 Monitoring, inspections<br/>and auditing</li> <li>Appendix A4 Site Establishment<br/>Management Plan (Table 5)</li> </ul> </li> </ul>  |
| Noise and<br>Vibration | <ul> <li>Installation of hoarding<br/>along boundary of Lot 2E</li> <li>Utility and services<br/>reestablishment including:         <ul> <li>Pipes for sewer,<br/>compressed air,<br/>water and dewater</li> <li>LV and HV power</li> <li>Gantry crane and<br/>alimak within<br/>Temporary Shaft<br/>Acoustic Shed</li> <li>Wheel wash</li> </ul> </li> <li>Amendments and repairs to<br/>existing structures<br/>including:         <ul> <li>Construction WTP</li> <li>Offices and<br/>amenities</li> <li>Temporary shaft<br/>acoustic shed</li> <li>Workshop</li> </ul> </li> </ul> | <ul> <li>Noise impacts on sensitive receivers from high impact activities within construction ancillary facility, including the use of:         <ul> <li>Rattle guns, welders and grinders at mechanical workshop.</li> <li>Rock hammer to facilitate the installation of wheel wash.</li> <li>Rattle guns and cutters to repair existing acoustic shed.</li> <li>Rattle guns to inspect, repair and/or replace service pipes.</li> </ul> </li> </ul> | 16 (significant)                  | <ul> <li>Direct:</li> <li>Impact of works to be assessed prior to works commencing through a Gatewave Construction Noise Impact Assessment and/or the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities.</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan including: <ul> <li>Respite periods</li> <li>Works to take place within C1 ancillary facility behind existing noise walls and hoarding</li> <li>Monitoring carried out in accordance with the CNVIA</li> </ul> </li> <li>Programming of works to minimise the duration of noisy works</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of noise sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>List of assessed equipment and mitigation measures required to undertake high impact works to be specifically listed in Work Pack's</li> </ul> | 9 (moderate)                          | <ul> <li>Appendix B3 Noise and Vibration Preliminary<br/>CEMP Sub-plan: <ul> <li>Section 7 Construction noise and<br/>vibration assessment</li> <li>Section 8 Environmental Control<br/>Measures</li> <li>Section 9 Compliance management<br/>(including training)</li> </ul> </li> <li>CNVIA for preliminary construction including<br/>commencement activities (Appendix F to the<br/>Noise and Vibration Preliminary CEMP Sub-<br/>plan): <ul> <li>Section 5.3.1 High noise impact<br/>activities</li> <li>Appendix C Construction Timetable<br/>activities management</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul> </li> <li>Community Communication Strategy</li> </ul> |

| Issue | Construction activity/aspect   | Potential impact   | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|-------|--|--|-----------------------------------|---|---------------------------------------|---|
|       | <ul> <li>Spoil bunds within acoustic sheds</li> <li>Geotechnical assessment of existing tunnel adits which may include repair and restoration including:         <ul> <li>Repair and replace temporary tunnel support systems (e.g. ventilation fans)</li> <li>Upgrade and replace existing service pipes to make safe for use during Stage 2 construction</li> <li>Upgrade or replace emergency equipment</li> <li>Decline and invert repairs</li> <li>Ground support activities</li> </ul> </li> </ul> | <ul> <li>Vibration impacts on sensitive receivers from use of vibratory equipment, including the use of:         <ul> <li>Vibratory roller to facilitate the installation of the wheel wash.</li> <li>Use of bolter underground to install ground support (if required following geotechnical assessment).</li> <li>Use of rock hammers to repair invert of adit and decline.</li> </ul> </li> </ul> | 16 (significant)                  | <ul> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities.</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan including: <ul> <li>Respite periods</li> <li>Works to take place within specified areas only</li> <li>Monitoring in accordance with the CNVIA</li> </ul> </li> <li>Programming of works to minimise the duration of works</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of vibration sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>List of assessed equipment and mitigation measures required to undertake works which are at risk of generating vibration specifically listed in Work Pack's</li> </ul> | 9 (moderate)                          | <ul> <li>Appendix B3 Noise and Vibration Preliminary<br/>CEMP Sub-plan: <ul> <li>Section 7 Construction noise and<br/>vibration assessment</li> <li>Section 8 Environmental Control<br/>Measures</li> <li>Section 9 Compliance management<br/>(including training)</li> </ul> </li> <li>CNVIA for preliminary construction including<br/>commencement activities (Appendix F to the<br/>Noise and Vibration Preliminary CEMP Sub-<br/>plan): <ul> <li>Section 6.3 Vibration mitigation<br/>measures</li> <li>Appendix C Construction Timetable<br/>activities management</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul> </li> <li>Community Communication Strategy</li> </ul> |
|       |  | Noise impacts from out of hour deliveries  | 12 (moderate)                     | <ul> <li>Direct:</li> <li>OOHW only where justified (oversize permit etc)</li> <li>OOHW Approval must be obtained prior to works taking place and signed onto at pre-start</li> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities. Works to be carried out in accordance with the CNVIA</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>The Work Pack/s must include assessed plant, equipment and work area along with any mitigation measures which need to be implemented.</li> </ul>                          | 6 (minor)                             | <ul> <li>Appendix B3 Noise and Vibration Preliminary<br/>CEMP Sub-plan: <ul> <li>Section 7 Construction noise and vibration assessment</li> <li>Section 8 Environmental Control Measures</li> <li>Section 9 Compliance management (including training)</li> </ul> </li> <li>CNVIA for preliminary construction including commencement activities (Appendix F to the Noise and Vibration Preliminary CEMP Sub-plan): <ul> <li>Section 5.3 Noise mitigation and management</li> <li>Appendix C Construction Timetable activities management</li> </ul> </li> <li>Out of Hours Work and Construction Fatigue Protocol (Appendix C to the Noise and Vibration Preliminary CEMP Sub-plan)</li> <li>Community Communication Strategy</li> <li>CEMP preliminary construction including commencement activities: <ul> <li>Section 3.6 Competence, training and awareness</li> </ul> </li> </ul>                         |

| Issue         | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|---------------|--|---|-----------------------------------|--|---------------------------------------|---|
|               |  |   |                                   |  |                                       | Section 3.2.1 Environmental Risk     Assessment Workshop including the     use of Work Packs (Table 6)  |
|               |  |   |                                   |  |                                       | Community Communication Strategy  |
|               |  |   |                                   |  |                                       | Appendix B3 Noise and Vibration Preliminary CEMP Sub-plan:  |
|               |  |   |                                   |  |                                       | Section 4.1 Sensitive receivers   |
|               |  |   |                                   |  |                                       | Section 5 Noise and vibration criteria<br>for NSW   |
|               |  |   |                                   | Direct:  |                                       | Section 7 Construction noise and<br>vibration assessment  |
|               |  |   |                                   | <ul> <li>Impact of works to be assessed prior to works commencing through the<br/>Construction Noise and Vibration Impact Statement (CNVIA) for preliminary<br/>construction including commencement activities</li> </ul>      |                                       | Section 8 Environmental Control     Measures  |
|               |  |   |                                   | <ul> <li>Notification to be carried out in accordance with mitigation measures outlined<br/>in CNVIA</li> </ul>  |                                       | Section 9 Compliance management     (including training)  |
|               |  | Inadequate notification of<br>sensitive receivers impacted by<br>activities taking place within C1<br>ancillary facilities. | 12 (moderate)                     | <ul> <li>All on site personnel would undergo a site induction and ongoing toolbox<br/>talks that will identify the location/s of vibration sensitive receivers and<br/>mitigation measures that must be implemented</li> </ul> | 9 (moderate)                          | CNVIA for preliminary construction including<br>commencement activities (Appendix F to the<br>Noise and Vibration Preliminary CEMP Sub-<br>plan): |
|               |  |   |                                   | Indirect:  |                                       | Section 3 nearest sensitive receivers   |
|               |  |   |                                   | Implementation of management measures outlined in the Appendix B3 Noise     and Vibration Preliminary Sub-plan and CNVIA   |                                       | Section 4 Construction noise and<br>vibration objectives  |
|               |  |   |                                   | <ul> <li>Notification in accordance with the Community Communication Strategy</li> <li>The Work Pack/s to be reviewed by Community Relations Advisor</li> </ul>  |                                       | Section 5.3.2 Noise control and<br>management measures  |
|               |  |   |                                   |  |                                       | CEMP preliminary construction including<br>commencement activities:   |
|               |  |   |                                   |  |                                       | Section 3.4 Resources, responsibility<br>and authority  |
|               |  |   |                                   |  |                                       | Section 3.6 Competence, training and awareness  |
|               |  |   |                                   |  |                                       | Section 3.7 Communication   |
|               | Operation of the existing  |   |                                   | Direct:  |                                       | Appendix B4 Soil and Surface Water<br>Procedure:  |
|               | construction water   |   |                                   | • Existing water collection and treatment systems to be maintained.  |                                       | Water Reuse and Discharge Procedure   |
|               | treatment plant (WTP)<br>including water discharge                             |   |                                   | <ul> <li>Water for discharge from C1 ancillary facility will only be from the licenced<br/>discharge point (pre-existing construction WTP)</li> </ul>  |                                       | <ul> <li>Permit to Dewater</li> </ul>   |
|               | Maintenance of WTP pond  |   |                                   | Engineering controls at WTP maintained to prevent non-compliant water from   |                                       | Project EPL   |
|               | Cleaning and where   |   |                                   | being discharged   |                                       | CEMP preliminary construction including   |
| Soil and      | <ul><li>urface Water and sumps</li><li>Installation of environmental</li></ul> | Impact to surface waters from   | 12 (moderate)                     | Sampling and monitoring of treated water carried out in accordance with     Project EPL  | 6 (minor)                             | commencement activities:         Section 3.2.1 Environmental Risk   |
| Surface Water |  | inappropriate discharge   |                                   | All discharge activities to occur in accordance with the Water Reuse and<br>Discharge Procedure. This includes implementation of a Permit to Dewater   |                                       | Assessment Workshop including the<br>use of Work Packs (Table 6)  |
|               | control including erosion<br>and sediment controls and<br>hoarding in Lot 2E   |   |                                   | <ul> <li>for all discharge events.</li> <li>The WTP will only be operated by personnel trained to operate the WTP including what to in the event of an emergency.</li> </ul>   |                                       | Section 3.2.3 Regulatory requirements     and compliance  |
|               | Stockpiling of material generated from activities                              |   |                                   | <ul> <li>Including what to in the event of an emergency</li> <li>Ongoing pre-construction groundwater and surface water monitoring to</li> </ul>   |                                       | Section 3.8 Emergency and Incident Planning   |
|               | listed above   |   |                                   | continue<br>Indirect:  |                                       | Appendix A7 TfNSW Incident     Procedure  |

| Issue | Construction activity/aspect  | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|-------|---|---|-----------------------------------|--|---------------------------------------|--|
|       | <ul> <li>Ongoing management of pre-existing stockpile</li> <li>Use of plant and equipment, including refuelling</li> <li>Concrete works (including washout of agitators)</li> </ul> |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B4 Soil and<br/>Surface Water Procedure</li> <li>Operate and maintain construction WTP in accordance with construction<br/>WTP operating manual</li> <li>Implementing the TfNSW incident procedure in the event of a non-<br/>compliance</li> </ul>  |                                       | Appendix A4 Site Establishment<br>Management Plan: Site Environment<br>Plan for C1   |
|       | Vehicles and trucks exiting<br>C1 ancillary facility  | Sediment laden water leaving<br>C1 boundary during rainfall<br>event  | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Erosion and Sediment Control Plans (ESCP) would be prepared and implemented for all work areas and stages</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail erosion and sediment control management measures</li> <li>Regular inspection and maintenance of ESCP controls (as per Erosion and Sediment Control Procedure)</li> <li>Targeted training for key on site personnel who are involved in the installation and maintenance of erosion and sediment controls</li> <li>An experienced soil conservation specialist (CPESC) would be engaged to provide advice regarding erosion and sediment control</li> <li>Hardstand areas and surrounding public roads would be cleaned as required using methods such as brooms, bobcat attachments or street sweepers</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>ESCP to be included in Work Packs which detail activities working in close proximity to the site boundary (e.g. construction of hoarding in Lot 2E)</li> </ul> | 6 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure:</li> <li>Erosion and Sediment Control<br/>Procedure</li> <li>Stockpile Management Procedure</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> <li>Section 3.4 Resources, responsibility<br/>and authority</li> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C1</li> </ul> |
|       |   | Mismanagement of sludge<br>produced from cleaning<br>stormwater drains, leading to<br>escape of material beyond<br>boundary | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Slurry to be collected in vacuum truck from internal stormwater drains</li> <li>Works to only occur within C1 construction ancillary facility (no live stormwater drainage connected to external systems)</li> <li>Erosion and Sediment Controls as per the ESCP will be implemented and maintained</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> </ul>  | 6 (minor)                             | Appendix B4 Soil and Surface Water<br>Procedure:<br>• Erosion and Sediment Control<br>Procedure  |
|       |   | ASS/PASS encountered during<br>hoarding installation works in<br>Lot 2E   | 8 (minor)                         | <ul> <li>Direct:</li> <li>No bulk excavation occurring during Stage 1 preliminary construction</li> <li>Completion of Site Contamination Report/s prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Material from footings of noise wall to be stockpiled in a bunded area within an acoustic shed.</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> </ul>  | 4 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure: <ul> <li>Stockpile Management Procedure</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C1</li> </ul> </li> <li>Appendix B9 Waste CEMP Sub-plan: <ul> <li>Section 6 Environmental control<br/>measures</li> </ul> </li> </ul>  |

| Issue | Construction activity/aspect | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|-------|------------------------------|---|-----------------------------------|--|---------------------------------------|---|
|       |                              |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B9 Waste CEMP<br/>Sub-plan</li> <li>Control measures to be included in Work Pack for construction of hoarding in<br/>Lot 2E</li> </ul>   |                                       |   |
|       |                              | Contamination of soil or water<br>due to spills of oils and<br>chemicals related to:<br>• Mechanical failures<br>• Refuelling activities<br>• WTP operation | 8 (minor)                         | <ul> <li>Direct:</li> <li>Spill kits available at locations within the C1 ancillary facility at all times</li> <li>The use of any hazardous substances that could result in a spill will be undertaken away from drainage or stormwater lines and, wherever possible, within defined bunds</li> <li>Any refuelling on site must follow a refuelling procedure which includes details on where this activity is permitted, management measures and emergency equipment requirements.</li> <li>All spills or leakages will be immediately contained and cleaned up</li> <li>Spill containment kits will be placed at locations where chemicals are stored or used and where refuelling is permitted</li> <li>Inspection regime for chemical storage facilities</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Handling and storage of chemicals to follow Safe Work Method Statement and SDS</li> <li>Implement the TfNSW incident procedure</li> </ul> | 4 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure: <ul> <li>Spill Management Procedure</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul> </li> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C1</li> <li>Appendix A7 TfNSW Incident<br/>Procedure</li> </ul> |
|       |                              | Concrete Washout water<br>escaping beyond C1 boundary   | 8 (minor)                         | <ul> <li>Direct:</li> <li>Any washout areas will be adequately sized, regularly maintained (emptied), and located in a designated area</li> <li>Concrete Agitator truck drivers will be directed to the designated washout area</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Ongoing pre-construction groundwater and surface water monitoring to continue</li> </ul>   | 4 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure: <ul> <li>Water Reuse and Discharge Procedure</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul> </li> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C1</li> </ul>  |
|       |                              | Tracking of material onto Marsh<br>Street   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Wheel wash to be installed at C1 ancillary facility</li> <li>Vehicles exiting site (excluding vehicles using car park) to travel through wheel wash</li> <li>Street sweeper to be used to maintain internal haul roads and Marsh Street Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Vehicle Management Plan to direct exiting vehicles through wheel wash</li> </ul>  | 6 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure:         <ul> <li>Erosion and Sediment Control<br/>Procedure</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities:         <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C1</li> </ul> </li> </ul>   |
|       |                              | Increase use of resources<br>(potable water)  | 8 (minor)                         | <ul> <li>Direct:</li> <li>Treated water from WTP will be readily available from a designated refilling area for water trucks, street sweepers etc.</li> <li>Treated water usage to be tracked</li> </ul>   | 4 (minor)                             | Appendix B4 Soil and Surface Water<br>Procedure:<br>• Water Reuse and Discharge Procedure<br>• Water Reuse Strategy   |

| Issue       | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required                            |
|-------------|--|---|-----------------------------------|--|---------------------------------------|--|
|             |  |   |                                   | Indirect:  |                                       |  |
|             |  |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B4 Soil and<br/>Surface Water Procedure</li> </ul>                             |                                       |  |
|             |  |   |                                   | Implementation of Water Reuse Strategy   |                                       |  |
|             |  |   |                                   | Direct:  |                                       |  |
|             |  | <ul> <li>Impact/s to groundwater</li> </ul>   |                                   | <ul> <li>No bulk excavation during preliminary construction or commencement<br/>activities,</li> </ul>   |                                       | Appendix B4 Soil and Surface Water                                     |
|             |  | resources (including quality<br>or drawdown) from                                     | 8 (minor)                         | Grouting activities within adits to reduce groundwater ingress   | 4 (minor)                             | Procedure:   |
|             |  | disturbance   |                                   | Indirect:  |                                       | Water Reuse and Discharge Procedure                                    |
|             |  |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B4 Soil and<br/>Surface Water Procedure</li> </ul>                             |                                       |  |
|             |  |   |                                   | Direct:  |                                       | Appendix B4 Soil and Surface Water                                     |
|             |  |   |                                   | • Existing groundwater collection and treatment systems to be maintained.  |                                       | Procedure:   |
|             | Geotechnical assessment of   |   |                                   | Engineering controls at WTP maintained to prevent non-compliant water from   |                                       | Water Reuse and Discharge Procedure                                    |
|             | existing tunnel adits which<br>may identify repair and   |   | 12 (moderate)                     | being discharged   | 6 (minor)                             | Permit to Dewater  |
| roundwator  | restoration to ground  | oration to ground<br>bort and/or groundwater<br>rol systems<br>ration of the existing |                                   | <ul> <li>Sampling and monitoring of treated water carried out in accordance with<br/>Project EPL</li> </ul>                                    |                                       | Project EPL  |
| roundwater  | <ul> <li>support and/or groundwater control systems</li> <li>Operation of the existing construction WTP</li> </ul> |   |                                   | <ul> <li>All discharge activities to occur in accordance with the Water Reuse and</li> </ul>   |                                       | CEMP preliminary construction including commencement activities:       |
|             |  |   |                                   | Discharge Procedure. This includes implementation of a Permit to Dewater   |                                       |  |
|             |  |   |                                   | for all discharge events.  |                                       | Section 3.2.1 Environmental Risk     Assessment Workshop including the |
|             |  |   |                                   | <ul> <li>Operators trained to operate WTP including what to in the event of an<br/>emergency</li> </ul>  |                                       | use of Work Packs (Table 6)  |
|             |  |   |                                   | <ul> <li>Ongoing pre-construction groundwater and surface water monitoring to continue</li> </ul>  |                                       | Section 3.2.3 Regulatory requirements     and compliance               |
|             |  |   |                                   | Indirect:  |                                       | Section 3.8 Emergency and Incident     Blanning                        |
|             |  |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B4 Soil and</li> </ul>   |                                       | Planning   |
|             |  |   |                                   | Surface Water Procedure  |                                       | Appendix A7 TfNSW Incident     Procedure                               |
|             |  |   |                                   | Operate and maintain construction WTP in accordance with construction  |                                       | Appendix A4 Site Establishment   |
|             |  |   |                                   | WTP operating manual   |                                       | Management Plan: Site Environment<br>Plan for C1                       |
|             |  |   |                                   | Implement the TfNSW incident procedure   |                                       |  |
| eritage     | No ground disturbance would occ  | ur at C1 Arncliffe construction ancil   | lary facility outside of          |  |                                       |  |
|             | Handling of materials  |   |                                   | Direct:  |                                       | Appendix B7 Air Quality and Odour CEMP Sub-<br>plan:                   |
|             | Cutting, grinding, sawing  |   |                                   | Construction plant and equipment will be operated, inspected and maintained to maximise efficiency and comply with relevant emission standards |                                       | Section 6 Environmental control  |
|             | and rock hammering<br>concrete on surface  |   |                                   | <ul> <li>Engine idling will be minimised when plant is stationary, and plant will be</li> </ul>  |                                       | measures (Table 9)   |
|             | Movement of vehicles and   |   |                                   | switched off when not in use to reduce emissions   |                                       | Appendix A Air Quality Monitoring                                      |
|             | equipment on surface   | Emissions from the use of plant   |                                   | • The use of mains electricity will be favoured over diesel or petrol- powered   |                                       | Program  |
| Air Quality | <ul> <li>Maintaining existing<br/>stockpile</li> </ul>   | Emissions from the use of plant<br>and equipment                                      | 12 (moderate)                     | generators where practicable to reduce site emissions.   | 9 (moderate)                          | CEMP preliminary construction including<br>commencement activities:    |
|             | Refurbishment and upgrade  |   |                                   | Indirect:  |                                       | Section 3.2.1 Environmental Risk                                       |
|             | of offices and amenities   |   |                                   | Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan                                       |                                       | Assessment Workshop including the use of Work Packs (Table 6)          |
|             | Use of street sweeper  |   |                                   | <ul> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> </ul>  |                                       | <ul> <li>Section 3.9 Monitoring, inspections and</li> </ul>            |
|             | Application of pesticides to<br>weeds  |   |                                   | <ul> <li>Mitigation measures to be included in SWMS for the operation of plant and<br/>equipment where applicable</li> </ul>                   |                                       | auditing   |

| Issue | Construction activity/aspect | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk lev<br>followin<br>mitigatio |
|-------|------------------------------|---|-----------------------------------|--|-----------------------------------|
|       |                              | Sensitive receivers impacted by<br>dust generating surface works<br>such as cutting, grinding,<br>sawing and rock hammering | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Effective dust suppression would be applied during works including but not limited to the use of water carts, vacuum extractors, sprinklers, dust screens, fogging machines</li> <li>Preliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation</li> <li>Forecast of unfavourable weather conditions will be communicated to construction team</li> <li>Inspections will be undertaken on activities with potential to generate dust to monitor the effectiveness of the control measures</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Ensure that control measures are communicated and documented into Work Packs</li> </ul> | 9 (modera                         |
|       |                              | Tracking of material on Marsh<br>Street from vehicle movements<br>from C1 Arncliffe construction<br>ancillary facility      | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Hardstands and Haul roads within C1 construction ancillary facility will be maintained to minimise and reduce dust generation from exposed surface areas and vehicle movements</li> <li>All vehicles exiting the C1 construction ancillary facility (excluding light vehicles exiting from car park) will utilise the wheel wash prior to exiting site</li> <li>Water carts and street sweepers will service haul roads</li> <li>Inspections will be undertaken monitor the effectiveness of the control measures</li> <li>Vehicle Management Plan to be enforced by Supervisor and monitored by traffic control or delegated person</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Vehicle Management Plan to direct exiting vehicles through wheel wash</li> </ul>  | 9 (modera                         |
|       |                              | Sensitive receivers impacted by dust generation from stockpiles   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Storage of materials that have the potential to result in dust generation would be minimised within Project sites at all times</li> <li>Where feasible, stockpiles of materials will be located within existing acoustic sheds</li> <li>Long term inactive stockpiles (e.g. stockpiles left exposed and undisturbed for longer than 10 days) will be stabilised using soil polymer binders, spray seed, geofabric etc.</li> <li>Controls outlined in Stockpile Management Procedure to be implemented</li> <li>Inspections will be undertaken monitor the effectiveness of the control measures</li> </ul>   | 9 (modera                         |

| Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |  |  |  |  |  |
|---------------------------------------|---|--|--|--|--|--|
| 9 (moderate)                          | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul> |  |  |  |  |  |
| 9 (moderate)                          | Appendix B7 Air Quality and Odour CEMP Sub-<br>plan:<br>• Section 6 Environmental control<br>measures (Table 9)<br>• Section 7 Compliance management<br>• Appendix A Air Quality Monitoring<br>Program  |  |  |  |  |  |
| 9 (moderate)                          | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>Appendix B4 Soil and Surface Water Management Procedure:</li> <li>Stockpile Management Procedure</li> </ul>   |  |  |  |  |  |

| Issue | Construction activity/aspect | Potential impact   | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk leve<br>following<br>mitigation |
|-------|------------------------------|--|-----------------------------------|--|--------------------------------------|
|       |                              |  |                                   | Indirect:  |                                      |
|       |                              |  |                                   | Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan   |                                      |
|       |                              |  |                                   | Implementation of management measures outlined in the Stockpile<br>Management Procedure located in Appendix B4 Soil and Surface Water<br>Management Procedure  |                                      |
|       |                              |  |                                   | Monitoring and surveillance as per the Air Quality Monitoring program  |                                      |
|       |                              |  |                                   | Ensure that control measures are communicated and documented into Work Packs   |                                      |
|       |                              |  |                                   | Direct:  |                                      |
|       |                              |  |                                   | Construction plant and equipment will be operated, inspected and maintained to maximise efficiency and comply with relevant emission standards   |                                      |
|       |                              |  |                                   | Supervisor to assess competency of operator of street sweeper  |                                      |
|       |                              |  |                                   | Pre-start to be conducted on street sweeper daily and any faults rectified   |                                      |
|       |                              | Dust generation from improper  | 12 (moderate)                     | Where water sprays on street sweeper are not sufficient, water will be applied     using water cart or hose until issue is rectified   | 9 (moderate                          |
|       |                              | use of street sweeper  | (,                                | <ul> <li>All on site personnel would undergo a site induction and ongoing toolbox<br/>talks that will identify correct behaviours and mitigation measures that must<br/>be implemented</li> </ul>                                  | . (                                  |
|       |                              |  |                                   | Indirect:  |                                      |
|       |                              |  |                                   | Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan   |                                      |
|       |                              |  |                                   | Monitoring and surveillance as per the Air Quality Monitoring program  |                                      |
|       |                              |  |                                   | Direct:  |                                      |
|       |                              |  |                                   | Effective dust suppression to be applied during disassembly or relocation to<br>minimise dust generation   |                                      |
|       |                              |  |                                   | • Preliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation |                                      |
|       |                              | Sensitive receivers impacted by  |                                   | Forecast of unfavourable weather conditions will be communicated to<br>construction team   |                                      |
|       |                              | dust generated form the<br>removal and movement of<br>existing offices and amenities | 12 (moderate)                     | All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented  | 9 (moderate                          |
|       |                              |  |                                   | Inspections will be undertaken monitor the effectiveness of the control measures   |                                      |
|       |                              |  |                                   | Indirect:  |                                      |
|       |                              |  |                                   | Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan   |                                      |
|       |                              |  |                                   | Monitoring and surveillance as per the Air Quality Monitoring program  |                                      |
|       |                              |  |                                   | Direct:  |                                      |
|       |                              | Application of pesticides result<br>in chemical travelling beyond                    | 9 (moderate)                      | • The application of pesticides will be modified, reduced or controlled during high or unfavourable wind conditions where wind can carry pesticides beyond the C1 boundary   | 6 (minor)                            |
|       |                              | C1 boundary  |                                   | <ul> <li>An Environmental Work Method Statement will be developed on the<br/>application of pesticides and activity carried out in accordance with this<br/>EWMS</li> </ul>  |                                      |

| evel<br>ing<br>tion | Management Documents / Training<br>Required   |  |  |  |  |  |  |  |
|---------------------|---|--|--|--|--|--|--|--|
|                     | CEMP preliminary construction including<br>commencement activities:   |  |  |  |  |  |  |  |
|                     | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul>  |  |  |  |  |  |  |  |
|                     |   |  |  |  |  |  |  |  |
|                     | Appendix B7 Air Quality and Odour CEMP Subplan:   |  |  |  |  |  |  |  |
|                     | <ul> <li>Section 6 Environmental control<br/>measures (Table 9)</li> </ul>  |  |  |  |  |  |  |  |
|                     | Section 7 Compliance management   |  |  |  |  |  |  |  |
| rate)               | <ul> <li>Appendix A Air Quality Monitoring<br/>Program</li> </ul>   |  |  |  |  |  |  |  |
|                     | CEMP preliminary construction including<br>commencement activities:   |  |  |  |  |  |  |  |
|                     | <ul> <li>Section 3.4 Resources, responsibilities<br/>and authority</li> </ul>   |  |  |  |  |  |  |  |
|                     | <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul>  |  |  |  |  |  |  |  |
| rate)               | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> </ul> |  |  |  |  |  |  |  |
|                     | Appendix B7 Air Quality and Odour CEMP Subplan:   |  |  |  |  |  |  |  |
| or)                 | <ul> <li>Section 6 Environmental control<br/>measures (Table 9)</li> </ul>  |  |  |  |  |  |  |  |
| -                   | Section 7 Compliance management   |  |  |  |  |  |  |  |
|                     | <ul> <li>Appendix A Air Quality Monitoring<br/>Program</li> </ul>   |  |  |  |  |  |  |  |

| Issue         | Construction activity/aspect  | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|---------------|---|---|-----------------------------------|--|---------------------------------------|---|
| Contamination | <ul> <li>Excavation of footings for<br/>hoarding to be constructed<br/>along the boundary of Lot<br/>2E (approx. 30metres)</li> </ul>   | Disturbance of contaminated material  | 8 (minor)                         | <ul> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air<br/>Quality and Odour CEMP Sub-plan</li> <li>Implementation of management measures outlined in the Weed Management<br/>Procedure found in Appendix B2 Flora and Fauna Management Procedure</li> <li>Implementation of management measures outlined in the EWMS</li> <li>Direct:</li> <li>No bulk excavation will be undertaken at C1 ancillary facility during<br/>preliminary construction activities</li> <li>Completion of Site Contamination Report/s prior to ground disturbance<br/>activities (E112)</li> <li>Implementation of specific management measures identified in Site<br/>Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Implementation of the TfNSW Unexpected Contaminated Lands and Asbestos<br/>Finds Procedure (Appendix A of the Appendix B8 Contamination CEMP Sub-<br/>plan)</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B8<br/>Contamination CEMP Sub-plan</li> </ul> | 3 (minor)                             | <ul> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:         <ul> <li>Weed Management Procedure</li> <li>CEMP preliminary construction including<br/>commencement activities:                 <ul></ul></li></ul></li></ul>   |
|               |   |   |                                   | Contamination CEMP Sub-plan     Ensure that control measures are communicated and documented into Work     Packs     Direct:   |                                       | Assessment Workshop including the use of Work Packs (Table 6)   |
| Waste         | <ul> <li>Waste services collecting<br/>skips and front-loading bins</li> <li>Waste materials generated<br/>from refurbishment,<br/>upgrading and replacement<br/>activities:         <ul> <li>Services</li> <li>Existing<br/>mechanical plant<br/>and equipment</li> <li>Offices and<br/>amenities</li> </ul> </li> <li>Material removed during:</li> </ul> | Inappropriate disposal of waste<br>(including demolition,<br>vegetation and hazardous /<br>special waste) including<br>disposal of waste at an<br>unlicensed waste facility | 15 (significant)                  | <ul> <li>Waste classification in accordance with EPA guidelines</li> <li>Suitably licensed waste contractors would be used for the collection and transport of all wastes for either offsite processing and/or disposal to an appropriately licensed facility</li> <li>Receipts for waste transfer and disposal would be checked to ensure all details are correct and retained for audit purposes</li> <li>Implementation of a waste tracking register</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that detail waste and resource management measures</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B9 Waste CEMP Sub-plan</li> </ul>  | 9 (moderate)                          | <ul> <li>Appendix B9 Waste CEMP Sub-plan:</li> <li>Section 4.4 Waste management<br/>Hierarchy</li> <li>Section 4.5 Classification of waste<br/>streams</li> <li>Section 4.6 Management of waste<br/>streams</li> <li>Section 4.7 Waste tracking</li> <li>Section 6 Environmental control<br/>measures</li> <li>Section 7 Compliance management</li> </ul> |
|               | <ul> <li>Repairs in decline<br/>and adits</li> <li>Restoration works<br/>within temporary<br/>shaft</li> <li>Installation of<br/>wheel wash</li> <li>Excavation of noise<br/>wall footings</li> <li>Litter from workforce,<br/>visitors and staff</li> </ul>  | Litter, inappropriate use of co-<br>mingling and waste receptacles  | 8 (minor)                         | <ul> <li>Direct:</li> <li>All recyclable solid wastes (paper/ cardboard/ plastic/ glass/ timber/ metals/<br/>fluorescent lighting/ printer cartridges/ICT equipment) would be segregated<br/>for recycling purposes and volumes reported. Wherever possible, packaging<br/>should be avoided or minimised to prevent waste products being<br/>unnecessarily brought to site.</li> <li>All staff and subcontractors would undergo a site induction and ongoing<br/>toolbox talks that will detail waste and resource management measures<br/>(including the waste management hierarchy) and energy consumption</li> <li>Indirect:</li> <li>Implement management measures outlined in the Sustainability Management<br/>Plan and Appendix B9 Waste CEMP Sub-plan</li> </ul>  | 2 (negligible)                        | <ul> <li>Appendix B9 Waste CEMP Sub-plan:</li> <li>Section 4.4 Waste management<br/>Hierarchy</li> <li>Section 4.5 Classification of waste<br/>streams</li> <li>Section 4.6 Management of waste<br/>streams</li> <li>Section 4.7 Waste tracking</li> <li>Section 6 Environmental control<br/>measures</li> <li>Section 7 Compliance management</li> </ul> |

| Issue   | Construction activity/aspect  | Potential impact   | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|---|---|--|-----------------------------------|--|---------------------------------------|--|
|   |   |  |                                   |  |                                       | Sustainability Management Plan   |
| Leachate and<br>Landfill Gas                          | The Leachate and Landfill Gas Cl  | EMP Sub-plan (CoA C7) does not   | apply to C1 Arncliffe c           | onstruction ancillary facility.  |                                       |  |
| General<br>aspects<br>including Site<br>Establishment |   | Inadequate notification to<br>relevant stakeholders of<br>incident and/or non-<br>conformance  | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Potential and actual non-compliances will be classified and reported in accordance with the TfNSW Environmental Incident Classification and Reporting Procedure</li> <li>A Pollution Incident Response Management Plan (PIRMP) will be prepared and implemented</li> <li>Indirect:</li> <li>All works will be carried out in accordance with the CPB Contractors Construction management System (certified to conform to AS/NZS ISO 14001:2016 Environmental management systems – Requirements with guidance for use)</li> </ul>   | 9 (moderate)                          | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.8 Emergency and Incident Planning</li> <li>Section 3.10 Environmental non-conformities</li> </ul>               |
|   | <ul> <li>Refurbishment and upgrade of offices and amenities</li> <li>Construction of hoarding along the boundary of Lot 2E</li> </ul> | Visual amenity impact on<br>adjacent sensitive receivers<br>including:<br>Light spill<br>Boundary screening<br>Overshadowing<br>Overlooking<br>Graffiti      | 9 (moderate)                      | <ul> <li>Direct:</li> <li>Existing noise walls and hoarding to remain in place</li> <li>The SSI number and Project name will be displayed at the entrance to the ancillary facility</li> <li>The ancillary facility will not cause overshadowing to sensitive receivers</li> <li>No facilities will look down into sensitive receivers</li> <li>Lights are to be directed down and away from residential receivers</li> <li>Where required, shields are to be placed on lights to direct light away from residential receivers</li> <li>Lighting to inspected regularly during environmental inspections or during noise monitoring to ensure light spill measures are effective</li> <li>Contact information will also be provided in the form of the Project Hotline and Information email address</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix A4 Site Establishment Management Plan</li> </ul> | 6 (minor)                             | CEMP preliminary construction including<br>commencement activities:<br>• Appendix A4 Site Establishment<br>Management Plan   |
|   |   | Undertaking activities not<br>described in the approved<br>CEMP Preliminary<br>construction including<br>commencement activities and<br>this risk assessment | 12 (moderate)                     | <ul> <li>All works will be carried out in accordance with the CPB Contractors<br/>Construction management System including ongoing environmental risk and<br/>opportunities identification during the development and review of:         <ul> <li>Project Risk Register (as per the Risk Management Plan: M6S1-<br/>CGU-NWW-PCRM-MPL-000800)</li> <li>Construction Area Plan Risk Assessments (CAPRAs)</li> <li>Work Packs, including Work Pack Risk Assessment</li> <li>Environmental Work Method Statements (EWMS) or Safe Work<br/>Method Statements (SWMSs), which address environmental risks<br/>(as applicable)</li> <li>Pre-start meetings</li> </ul> </li> <li>Undertaking regular internal inspections and monitoring</li> <li>Undertaking inspection with external stakeholders including the ER, AA and<br/>Project Soil Conservationist</li> </ul>  | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul> |

| Issue | Construction activity/aspect | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|-------|------------------------------|---|-----------------------------------|---|---------------------------------------|---|
|       |                              | Environmental objectives and<br>targets outlined in CEMP<br>Preliminary construction<br>including commencement<br>activities (Section 3.3.1) are<br>not met including:<br>• Inspections<br>• Monitoring | 12 (moderate)                     | <ul> <li>All works will be carried out in accordance with the CPB Contractors<br/>Construction management System (certified to conform to AS/NZS ISO<br/>14001:2016 Environmental management systems – Requirements with<br/>guidance for use)</li> <li>Undertaking regular internal inspections and monitoring including:         <ul> <li>Air quality monitoring as per Monitoring Program</li> <li>Noise and vibration monitoring as per Monitoring Program</li> <li>Ongoing pre-construction groundwater and surface water monitoring<br/>to continue</li> </ul> </li> <li>Undertaking inspection with external stakeholders including the ER, AA and<br/>Project Soil Conservationist</li> </ul> | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.4 Resources, responsibilities and authority</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul> |
|       |                              | Inadequate consultation with<br>stakeholders outlined in<br>Section 2 of the CEMP<br>Preliminary construction<br>including commencement<br>activities   | 12 (moderate)                     | <ul> <li>Consultation will be undertaken in accordance with the Stage Report and<br/>CEMP Preliminary construction including commencement activities</li> <li>Evidence of consultation and responses to queries will be provided within<br/>CEMP Sub-plans</li> </ul>   | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 2 Consultation, endorsement and approval</li> </ul>  |

## C2 Rockdale Depot construction ancillary facility

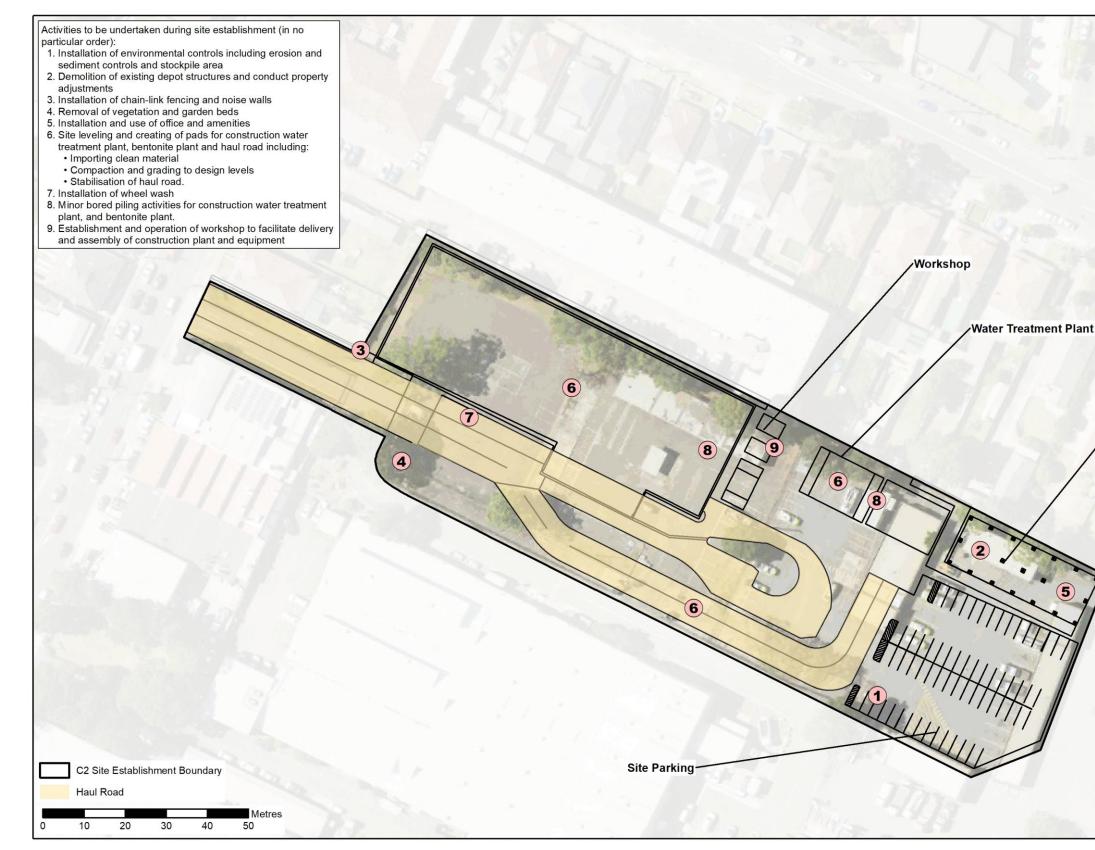


Figure 3 Stage 1 Preliminary construction activities at C2 Rockdale Depot construction ancillary facility



<sup>19 |</sup> M6 Stage 1 CEMP: Preliminary construction including commencement activities Appendix A2: Aspects and Impacts Register
20 October 2021 Version 01
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## Table 2 Aspects and impacts register for C2 Rockdale Depot construction ancillary facility

| Issue                 | Construction activity/aspect   | Potential impact  | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|-----------------------|--|---|--------------------------------|--|---------------------------------------|--|
|                       | <ul> <li>Light vehicles entering site: <ul> <li>Anticipated peak daily light vehicle movements (i.e. movement of vehicle in and out of site): 30</li> <li>Workforce, staff and visitors vehicles</li> <li>Delivery of small-scale construction materials in vans</li> </ul> </li> <li>Heavy vehicles entering site: <ul> <li>Anticipated peak daily heavy vehicle movements (i.e. movement of vehicle in and out of site): 40</li> <li>Delivery of plant and equipment on semi-</li> </ul> </li> </ul> | Increased vehicle movements<br>into construction ancillary facility   | 12 (moderate)                  | <ul> <li>Direct:</li> <li>The preliminary construction and commencement activities undertaken at C2 will not include activities that impact the operation of the road network</li> <li>Spoil haulage will not be undertaken during preliminary construction including commencement activities</li> <li>Access to C2 will be via the existing access point from West Botany Street (shared with existing depot): <ul> <li>Access to site is from left hand lane when travelling in south bound lane</li> <li>Egress from site is left out of site into the south bound lane</li> <li>No access via Bay Street</li> </ul> </li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail traffic and access management measures</li> <li>Vehicle Management Plan will be distributed to all subcontractors who need to attend site</li> </ul> <li>Indirect: <ul> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of Construction Parking and Access Strategy</li> </ul> </li> | 6 (minor)                             | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure which includes:</li> <li>Anticipated peak daily vehicle<br/>movements to C2</li> <li>Development of Vehicle Management<br/>Plans</li> <li>Outline of access/egress to C2</li> <li>Communication and training which will<br/>be undertaken</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> <li>Section 3.4 Resources, responsibilities<br/>and authority</li> <li>Section 3.5 Selection and<br/>management of subcontractors</li> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Construction Parking and Access Strategy</li> </ul> |
| Traffic and<br>Access | <ul> <li>trailers, some oversized</li> <li>Delivery of construction materials on flatbed trucks</li> <li>Delivery of concrete and shotcrete via concrete agitator</li> <li>Delivery and removal of portable buildings</li> <li>Fuel tankers distributing fuel and refilling at designated refuelling area</li> <li>Importing clean material to build and heads</li> </ul>  | Congestion at shared access<br>point with TfNSW depot   | 12 (moderate)                  | <ul> <li>Direct:</li> <li>Consultation with adjacent stakeholders will be undertaken in accordance with Community Consultation Strategy</li> <li>Access to depot to remain available to stakeholders</li> <li>Where works temporarily restrict access, stakeholders will be engaged to determine access arrangements</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of Construction Parking and Access Strategy</li> <li>Implementation of management measures outlined in the Community Communication Strategy</li> </ul>  | 6 (minor)                             | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure which includes:</li> <li>Development of Vehicle Management<br/>Plans</li> <li>Outline of access rules to C2</li> <li>Community Communication Strategy</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> <li>Section 3.4 Resources, responsibilities<br/>and authority</li> <li>Section 3.4 Communication</li> </ul>  |
|                       | <ul> <li>material to build pads,<br/>haul roads and laydown<br/>areas</li> <li>Other: <ul> <li>Street sweeper<br/>routinely maintaining<br/>West Botany Street</li> <li>Special purpose trucks<br/>servicing waste skips<br/>and front-loading bins</li> <li>Vacuum trucks<br/>conducting service<br/>investigation, cleaning<br/>of drains, pipes and<br/>services within</li> </ul> </li> </ul>  | Out of hour works that could<br>disrupt sensitive receivers<br>including:<br>Deliveries of plant and<br>equipment<br>Relocation of overhead<br>powerlines | 12 (moderate)                  | <ul> <li>Direct:</li> <li>Out of hour deliveries are to be unloaded during standard construction hours to avoid disruption to sensitive receivers</li> <li>Sensitive receivers to be notified of any OOH deliveries or works</li> <li>Where possible, removal of overhead powerlines will be removed during standard construction hours <ul> <li>Where this is not permitted under a ROL, the OOHW and Construction Fatigue Protocol will be implemented (Appendix C of the Noise and Vibration Preliminary CEMP Sub-plan</li> <li>Mitigation measures will follow those outlined in the CNVIA for Preliminary construction including commencement activities</li> </ul> </li> </ul>   | 6 (minor)                             | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure:         <ul> <li>Section 2.2 Road occupancy licenses</li> <li>Section 2.6 Communication and<br/>training</li> </ul> </li> <li>Appendix B3 Noise and Vibration Preliminary<br/>Sub-plan:         <ul> <li>Appendix C OOHW and Construction<br/>Fatigue Protocol</li> <li>Appendix F CNVIA preliminary<br/>construction including commencement<br/>activities</li> </ul> </li> <li>Community Communication Strategy</li> </ul>   |

| Final outside and any facility facility for service and facilities of the dependence of the depen  | Issue | Construction activity/aspect | Potential impact           | Risk level prior to mitigation | Indicative Mitigation Measures  | Risk lev<br>followin<br>mitigatio |
|--|-------|------------------------------|----------------------------|--------------------------------|---|-----------------------------------|
| Fore and<br>Fauna         • Removal of regentation<br>of coverhal provides<br>al outrance to C2<br>and Variation Preliminary Stur-pain.         • Parking on Status (Stur-pain.         • Parking on Status (Stur-pain)         • Parking on Status (Stur-pain   |       |                              |                            |                                |   |                                   |
| Form and<br>Facility         Removal of vogetation<br>with construction and/ary<br>facility         Classifier<br>operation<br>(addition)         Direct:<br>(   |       | facilitating the removal     |                            |                                |   |                                   |
| Flore and<br>Facility       • Parking in tocal structure<br>in local structure<br>Parking in tocal activity outil to energy construction facility would be nearby and would be<br>utilised by would be meanly and would be<br>utilised by would be<br>utilised by would be meanly and would be<br>utilised by would by<br>the mound by the top<br>the mound by<br>the mound by<br>the mound by the top<br>the mound by<br>the mound by<br>the mound by the top<br>the mound by<br>the mound by the top<br>the mound by the top<br>the mound by<br>the mound by the top |       | at entrance to C2            |                            |                                | Direct:   |                                   |
| Find and<br>For and<br>For and<br>Found         • Removal of vegetation<br>within construction analysis<br>of entry and transport management measures<br>building building and transport management measures<br>tradified by workfore, stat and within a flactuation and analysis<br>reduction and apport management measures<br>indirect.         • All on set generation of management measures<br>indirect.         • Implementation of contruction Parking and Access Strategy         • All construction facility from Bay Street.<br>Indirect.         • All construction facility from Bay Street.<br>Indirect.         • All construction Access and Parking Strategy         • France<br>indirect indirect indirect indirect indirect indirect indirect<br>indirect indirect indin indirect indirect indirect indirect indirect indirect indindir   |       |                              |                            |                                | Parking on site would be available for workforce, staff and visitors          |                                   |
| Flora and<br>Fauna       • Removal of vegetation<br>within construction analitary<br>facting put-lide an approved<br>facting out-lide an approved<br>facting out-lide an approved<br>facting and Chearing and Grubbing<br>Plan       • Indicate streets       • Indicate streets       • Indicate streets       • Indicate streets         Flora and<br>Fauna       • Removal of vegetation<br>within construction analitary<br>facility (urban native and<br>oxoid c Cover)       • Indicate streets         Flora and<br>Fauna       • Removal of vegetation<br>oxoid c cover)       • Removal of vegetation<br>muthin construction analitary<br>ouncide the encould<br>of the indicate streets       • Indicate streets         Flora and<br>Fauna       • Removal of vegetation<br>within construction analitary<br>ouncide the encould<br>of the indicate streets       • Indicate streets         Flora and<br>Fauna       • Removal of vegetation<br>within construction analitary<br>ouncide the encould streets       • Indicate st  |       |                              |                            |                                |   |                                   |
| Flore and<br>Fauna         • Removal of vegetation<br>within construction analizy<br>facility (urban native and<br>exotic cover)         • Obtains of construction of construction of the Appendix B1 Traffic<br>and Access Management Procedure         • Implementation of Construction Parking and Access Strategy           Direct:         • All construction raffic will use the most direct route to the closest arterial and<br>motorway network to minimise impacts on local roads         • No access to C2 ancillary construction facility from Bay Street.<br>Indirect:         • Implementation of Construction ancillary from Bay Street.<br>Indirect:         • Implementation of Construction Access and Parking Strategy         • No-GC Zones (Safety, Henting Strategy)         • Obside Catchment Arceas         • No-GC Zones (Safety, Henting Strategy)         • Obside Catchment Arceas         • No-GC Zones (Safety, Henting Strategy)         • Obside Catchment Arceas         • No-GC Zones (Safety, Henting Strategy)         • Obside Catchment Arceas         • No-GC Zones (Safety, Henting Strategy)         • Obside Catchment Arceas         • No-GC Zones (Safety, Henting Strategy)         • Obside Catchment Arc  |       |                              | Parking in local streets   | 12 (moderate)                  |   | 6 (mino                           |
| Flora and<br>Flora and       • Removal of vegetation<br>solid covery)       Clearing outside an approved<br>area and/or the removal of<br>under Clearing and Glubbing<br>Plan       12 (moderate)       • (Moderate)       • (Moderate)       • (minute<br>index equation in the clearing and Glubbing<br>Plan       • (minute<br>index equation in the clearing and Glubbing<br>Plan must include:<br>• Index equation in the clearing and Glubbing<br>Plan must include:<br>• Index equation in the clearing and Glubbing<br>Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing Plan must include:<br>• Index equation in the clearing and Glubbing<br>* (Moderate)       • (Moderate)       • (Moderate)       • (Moderate)       • (Moderate)       • (Moderate)       • (Clearing and Glubbing Plan mu  |       |                              |                            |                                | Indirect:   |                                   |
| Flora and<br>Fauna         Removal of vegetation<br>infinition nativo and<br>exotic cover)         Clearing outside an approved<br>area and/or the removal of<br>Plan         P (Moderate)         Direct:<br>• All construction traffic will use the most direct route to the closest arterial and<br>motorway network to minimise impacts on local roads<br>• No access to C2 ancillary construction facility from Bay Street.<br>Indirect:<br>• Implementation of management measures outlined in the Appendix B1 Traffic<br>and Access Management Procedure<br>• Implementation of Construction Access and Parking Strategy         6 (minori<br>explorementation of Construction Access and Parking Strategy           Plore and<br>Flora and<br>Fauna         • Removal of vegetation<br>my within construction native<br>main and/or the removal or<br>purport of the clearing and Grubbing Plan must her<br>clearing activities taking place.<br>• No PCT and TECs are located within the C2 construction and Grubbing Plan must include:<br>• No PCT and TECs are located within the C2 construction and Grubbing Plan must include:<br>• Noise Catchment Areas<br>• Noise Catchment Areas<br>• Noise Catchment Areas<br>• Noise Catchment Areas<br>• Trees approved to be removed, pruned/trimmed and retained<br>(Approved Tree Report under E146)<br>• Clearance boundary<br>• Location of wreed (if applicable E42)<br>• Permit to Clear Land and Vegetation must be in place prior to any clearing<br>activities taking place<br>• Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>deering advisities taking place<br>• Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>deering advisities taking place<br>• Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>deering advisities taking place<br>• Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>deering advisities taking place         • Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>deering advisities tak   |       |                              |                            |                                |   |                                   |
| Plota and Parana       Removal of vegetation within construction ancility fram analyses and or the removal or prund to removal or prund to the class of some class of the cla   |       |                              |                            |                                | Implementation of Construction Parking and Access Strategy                    |                                   |
| Flora and<br>Flora and<br>Fauna       • Removal of vegetation<br>within construction and<br>exotic cover)       • Removal of vegetation<br>motorway network to minimise impacts on local roads       • No accass to C2 and<br>indirect:       • Implementation of management Procedure<br>• Implementation of Construction Access and Parking Strategy       • • • • • • • • • • • • • • • • • • •   |       |                              |                            |                                | Direct:   |                                   |
| Flora and Fauna <ul> <li> <ul> <li></li></ul></li></ul>  |       |                              |                            |                                |   |                                   |
| Flora and<br>Flora and<br>Pauna       • Removal of vegetation<br>within construction ancillary<br>Fauna       • Removal of vegetation<br>within construction ancillary<br>Flora and<br>exotic cover)       • Removal of vegetation<br>within construction ancillary<br>facility<br>facility (urban native and<br>exotic cover)       • Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)       • Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)       • Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)       • Clearing outside an approved<br>area and/or the removal or<br>pruning of three's not approved<br>under Clearing and Grubbing<br>Plan       • Moderate)       • No-Go Zones (Safety, Heritage or Ecological)<br>• Sensitive Areas<br>• Noise Catchment Areas<br>• Noise Catchment Areas<br>• Trees approved to be removed, pruned/trimmed and retained<br>(Approved Tree Report under E146)<br>• Clearance boundary<br>• Details on stages of work<br>• Uorking hours<br>• Location of weed (if applicable E42)       • (mino-<br>exotive cover)         • Clearing durbing Plan       • Sensitive Areas<br>• Trees approved to be removed, pruned/trimmed and retained<br>(Approved Tree Report under E146)<br>• Clearance boundary<br>• Location of weed (if applicable E42)<br>• Permit to Clear Land and Vegetation must be in place prior to any clearing<br>activities taking place<br>• Clearing activities taking place in accordance with the Clearing and Grubbing<br>Plan       • Work reve involved with clearing and Grubbing<br>Plan   |       |                              | Vehicles using local roads | 12 (moderate)                  | No access to C2 ancillary construction facility from Bay Street.              | 6 (mino                           |
| Flora and       • Removal of vegetation Faundation and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include: <ul> <li>Index provide the removal of vegetation within construction ancillary facility</li> <li>Hold point for the Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include:                 <ul> <li>Index provide the removal of the removal or priving of tree/s not approved under Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and retained (Approved Tree Report under E146)</li> <li>Nor-Go Zones (Safety, Heritage or Ecological)</li> <li>Sensitive Areas</li> <li>Trees approved to be removed, pruned/trimmed and retained (Approved Tree Report under E146)</li> <li>Clearance boundary</li> <li>Details on stages of work</li> <li>Location of weed (if applicable E42)</li> <li>Permit to Clear Land on Vegetation must be in place prior to any clearing activities taking place</li> <li>Clearing activities taking place</li></ul></li></ul>  |       |                              | Verheide denng loodi rodde |                                | Indirect:   |                                   |
| Flora and<br>Fauna         •         Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)         Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>under Clearing and Grubbing         9 (Moderate)         •         No-Go Zones (Safety, Heritage or Ecological)         •         •         •         No-Go Zones (Safety, Heritage or Ecological)         •         •         •         •         No-Go Zones (Safety, Heritage or Ecological)         •         •         •         No-Go Zones (Safety, Heritage or Ecological)         •         •         •         No-Go Zones (Safety, Heritage or Ecological)         •<  |       |                              |                            |                                |   |                                   |
| Flora and<br>Fauna• Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)• Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>pruning of tree/s not approved<br>p   |       |                              |                            |                                | Implementation of Construction Access and Parking Strategy                    |                                   |
| Flora and<br>Fauna• Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>plan9 (Moderate)• Hold point for the Clearing and Grubbing Plan must be released prior to any<br>clearing activities taking place. The Clearing Survey)<br>• No-Go Zones (Safety, Heritage or Ecological)<br>• No-Go Zones (Safety, Heritage or Ecological)<br>• Sensitive Areas<br>• Noise Catchment Areas<br>• Trees approved to be removed, pruned/trimmed and retained<br>(Approved Tree Report under E146)<br>• Clearace boundary<br>• Details on stages of work<br>• Working hours<br>• Location of weed (if applicable E42)6 (minor<br>• Removal of vegetation<br>gativities taking place• Clearly delineate the C2 construction ancillary<br>plan• Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>clearing activities taking place• Clearly delineate the C2 construction and sign onto Permit to<br>Clear Land on Vegetation• Clearly delineate to read and sign onto Permit to<br>Clear Land or Vegetation   |       |                              |                            |                                | Direct:   |                                   |
| Flora and       • Removal of vegetation within construction ancillary facility (urban native and drubbing Plan must include:       • Location of any habitat trees (Pre-Clearing Survey)       • No-Go Zones (Safety, Heritage or Ecological)       • No-Go Zones (Safety, Heritage or Ecological)       • No-Go Zones (Safety, Heritage or Ecological)       • Sensitive Areas       • Noise Catchment Areaas       • No-Go Zones (Safety, Heritage or Ecological)       • Clearing activities taking place       • Clearing curvey)       • No-Go Zones (Safety, Heritage or Ecological)       • Sensitive Areas       • Noise Catchment Areaas       • Noise Catchment Areaas       • Noise Catchment Areaas       • Trees approved to be removed, pruned/trimmed and retained (Approved Tree Report under E146)       • Clearance boundary       • Clearance boundary       • Clearance boundary       • Clearance boundary       • Clearing activities taking place       • Clearing activities to read and sign onto Permit to Clear Land or Vegetation       • Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation       • Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation   |       |                              |                            |                                | No PCT and TECs are located within the C2 construction ancillary facility     |                                   |
| Flora and<br>FaunaRemoval of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>under Clearing and Grubbing<br>Plan9 (Moderate)0No-Go Zones (Safety, Heritage or Ecological)<br>Sensitive Areas<br>Noise Catchment Areas<br>O Clearance boundary<br>O Details on stages of work<br>O Location of weed (if applicable E42)6 (minol<br>(Moderate)9 (Moderate)9 (Moderate)9 (Moderate)0Clearing and Grubbing<br>Plan6 (minol<br>O Clearance boundary<br>O Details on stages of work<br>O Location of weed (if applicable E42)6 (minol<br>Permit to Clear Land and Vegetation must be in place prior to any clearing<br>activities taking place6 (minol<br>O Clearing activities to read and sign onto Permit to<br>Clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation   |       |                              |                            |                                |   |                                   |
| Flora and<br>Fauna       • Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)       Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>under Clearing and Grubbing<br>Plan       9 (Moderate)       • Sensitive Areas<br>• Noise Catchment Areas<br>• Trees approved to be removed, pruned/trimmed and retained<br>(Approved Tree Report under E146)       • Glearance boundary<br>• Details on stages of work<br>• Urban stages of work<br>• Location of weed (if applicable E42)       • Gerande boundary<br>• Location of weed (if applicable E42)       • Octar Land and Vegetation must be in place prior to any clearing<br>activities taking place       • Clearly delineate the C2 construction ancillary boundary (survey) prior to<br>clearing and Grubbing<br>Plan         • Work crew involved with clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation       • Work crew involved with clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation  |       |                              |                            |                                | <ul> <li>Location of any habitat trees (Pre-Clearing Survey)</li> </ul>       |                                   |
| Flora and<br>FaunaRemoval of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>plan9 (Moderate)0Noise Catchment Areas<br>(Approved Tree Report under E146)6 (minor<br>(Approved Tree Report under E146)9 (Moderate)9 (Moderate)9 (Moderate)0Clearance boundary<br>0Details on stages of work<br>00Details on stages of work<br>000Clearance boundary6 (minor<br>000Clearing and Grubbing<br>Plan9 (Moderate)9 (Moderate)0Details on stages of work<br>00Details on stages of work<br>000Details on stages of work<br>0000Details on stages of work<br>00 <t< td=""><td></td><td><ul> <li>No-Go Zones (Safety, Heritage or Ecological)</li> </ul></td><td></td></t<>  |       |                              |                            |                                | <ul> <li>No-Go Zones (Safety, Heritage or Ecological)</li> </ul>              |                                   |
| Flora and<br>Fauna       • Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)       Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>under Clearing and Grubbing<br>Plan       9 (Moderate)       • Trees approved to be removed, pruned/trimmed and retained<br>(Approved Tree Report under E146)       • Gearance boundary       • Clearance boundary       • Details on stages of work       • Working hours       • Location of weed (if applicable E42)       • Clearing activities taking place       • Clearing activities taking place       • Clearing activities taking place in accordance with the Clearing and Grubbing<br>Plan       • Clearing activities to read and sign onto Permit to<br>Clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation       • Work crew involved with clearing activities to read and sign onto Permit to       • Work crew involved with clearing activities to read and sign onto Permit to  |       |                              |                            |                                |   |                                   |
| Flora and<br>Fauna       • Removal of vegetation<br>within construction ancillary<br>facility (urban native and<br>exotic cover)       Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>under Clearing and Grubbing       9 (Moderate)       • Clearance boundary<br>• Details on stages of work<br>• Working hours<br>• Location of weed (if applicable E42)       • Ocearance boundary<br>• Details on stages of work<br>• Working hours<br>• Clearing and Grubbing<br>• Clearing activities taking place       • Clearing outside an approved<br>under Clearing and Grubbing       • (Approved Tree Report under E146)       • (Approved Tree Report under E146)         • Details on stages of work<br>• Working hours<br>• Location of weed (if applicable E42)       • Details on stages of work<br>• Working hours<br>• Location ancillary boundary (survey) prior to<br>clearing activities taking place       • Ocearing activities taking place       • Ocearing activities taking place in accordance with the Clearing and Grubbing<br>Plan         • Work crew involved with clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation       • Work crew involved with clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation       • Work crew involved with clearing activities to read and sign onto Permit to<br>Clear Land or Vegetation   |       |                              |                            |                                |   |                                   |
| Flora and<br>Fauna       Within construction anciliary<br>facility (urban native and<br>exotic cover)       pruning of tree/s not approved<br>under Clearing and Grubbing<br>Plan       9 (Moderate)   |       |                              |                            |                                | (Approved Tree Report under E146)   |                                   |
| <ul> <li>Plan</li> <li>Working hours</li> <li>Location of weed (if applicable E42)</li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place</li> <li>Clearly delineate the C2 construction ancillary boundary (survey) prior to clearing activities taking place in accordance with the Clearing and Grubbing Plan</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> </ul>   |       |                              |                            | 9 (Moderate)                   |   | 6 (mino                           |
| <ul> <li>Location of weed (if applicable E42)</li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place</li> <li>Clearly delineate the C2 construction ancillary boundary (survey) prior to clearing activities taking place in accordance with the Clearing and Grubbing Plan</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> </ul>  |       | exotic cover)                |                            |                                |   |                                   |
| <ul> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place</li> <li>Clearly delineate the C2 construction ancillary boundary (survey) prior to clearing activities taking place in accordance with the Clearing and Grubbing Plan</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> </ul>  |       |                              |                            |                                |   |                                   |
| <ul> <li>activities taking place</li> <li>Clearly delineate the C2 construction ancillary boundary (survey) prior to clearing activities taking place in accordance with the Clearing and Grubbing Plan</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> </ul>   |       |                              |                            |                                |   |                                   |
| <ul> <li>clearing activities taking place in accordance with the Clearing and Grubbing<br/>Plan</li> <li>Work crew involved with clearing activities to read and sign onto Permit to<br/>Clear Land or Vegetation</li> </ul>   |       |                              |                            |                                |   |                                   |
| Clear Land or Vegetation   |       |                              |                            |                                | clearing activities taking place in accordance with the Clearing and Grubbing |                                   |
| Pre and Post Clearing checklist to be completed  |       |                              |                            |                                |   |                                   |
|  |       |                              |                            |                                | Pre and Post Clearing checklist to be completed                               |                                   |

| Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|---------------------------------------|--|
|                                       |  |
| 6 (minor)                             | Appendix B1 Traffic and Access Management<br>Procedure:<br>• Section 2.6 Communication and<br>training<br>Construction Parking and Access Strategy   |
| 6 (minor)                             | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure which includes:</li> <li>Outline of access rules to C2</li> <li>Communication and training which will<br/>be undertaken</li> </ul>  |
| 6 (minor)                             | Appendix B2 Flora and Fauna Management<br>Procedure:<br>• Appendix A Clearing and Grubbing<br>Procedure<br>Clearing and Grubbing Plan:<br>• Approved Tree Report under E146<br>Permit to Clear Land and Vegetation:<br>• Pre-clearing checklist<br>• Post clearing checklist |

| Issue | Construction activity/aspect | Potential impact                               | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk lev<br>followin<br>mitigatic |
|-------|------------------------------|--|--------------------------------|--|-----------------------------------|
|       |                              |  |                                | <ul> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B2 Flora and<br/>Fauna Management Procedure</li> </ul>  |                                   |
|       |                              | Damage to vegetation<br>(including) tree roots | 9 (moderate)                   | <ul> <li>Direct:</li> <li>Hold point for the Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include: <ul> <li>Location of habitat trees (Pre-Clearing Survey)</li> <li>No-Go Zones (Safety, Heritage or Ecological)</li> <li>Sensitive Areas</li> <li>Noise Catchment Areas</li> <li>Trees approved to be removed, pruned/trimmed and retained (Approved Tree Report under E146)</li> <li>Clearance boundary</li> <li>Details on stages of work</li> <li>Working hours</li> <li>Location of weed (if applicable E42)</li> </ul> </li> <li>Implement tree protection measures as identified by arborist (E146)</li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place and any tree protection measure implemented</li> <li>Pre-Clearing checklist to be completed to check controls are in place</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> <li>If damage is identified in Post Clearing Checklist, arborist will be assigned to assess tree</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B2 Flora and Fauna Management Procedure</li> </ul> | 6 (minor                          |
|       |                              | Injury / encounter with fauna                  | 9 (moderate)                   | <ul> <li>Direct:</li> <li>Pre-clearing surveys to be undertaken prior to the removal of any vegetation.</li> <li>Habitat trees must be identified in accordance with the Approved Clearing and Grubbing Report and Permit to Clear Land and Vegetation</li> <li>If fauna is encountered and/or injured, Fauna Handling Procedure will be implemented</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B2 Flora and Fauna Management Procedure</li> </ul>   | 6 (minor                          |
|       |                              | Spread of weed species                         | 8 (minor)                      | <ul> <li>Direct:</li> <li>Hold point for the Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include:         <ul> <li>Location of habitat trees or threatened flora (Pre-Clearing Survey E42)</li> <li>No-Go Zones (Safety, Heritage or Ecological)</li> <li>Sensitive Areas</li> </ul> </li> </ul>  | 6 (minor                          |

| evel<br>⁄ing<br>tion | Management Documents / Training<br>Required   |
|----------------------|---|
|                      |   |
| nor)                 | Appendix B2 Flora and Fauna Management<br>Procedure:<br>• Appendix A Clearing and Grubbing<br>Procedure<br>Clearing and Grubbing Plan:<br>• Approved Tree Report under E146<br>Permit to Clear Land and Vegetation:<br>• Pre-clearing checklist<br>• Post clearing checklist  |
| nor)                 | <ul> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:</li> <li>Appendix A Clearing and Grubbing<br/>Procedure</li> <li>Appendix B Fauna Handling Procedure</li> <li>Clearing and Grubbing Plan:</li> <li>Pre-clearing Survey under E43</li> <li>Permit to Clear Land and Vegetation:</li> <li>Pre-clearing checklist</li> <li>Post clearing checklist</li> </ul> |
| nor)                 | <ul> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:</li> <li>Appendix A Clearing and Grubbing<br/>Procedure</li> <li>Appendix C Weed Management<br/>Procedure</li> <li>Clearing and Grubbing Plan:</li> </ul>  |

| Issue                  | Construction activity/aspect   | Potential impact   | Risk level prior to mitigation | Indicative Mitigation Measures  | Risk leve<br>followin<br>mitigatio |
|------------------------|--|--|--------------------------------|---|------------------------------------|
|                        |  |  |                                | <ul> <li>Noise Catchment Areas</li> <li>Trees approved to be removed, pruned/trimmed and retained<br/>(Approved Tree Report under E146)</li> <li>Clearance boundary</li> <li>Details on stages of work</li> <li>Working hours</li> <li>Location of weed (if applicable E42)</li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing<br/>activities taking place and weeds identified within Permit</li> <li>Weeds to be identified on site prior to clearing activities taking place</li> <li>Work crew involved with clearing activities to read and sign onto Permit to<br/>Clear Land or Vegetation</li> <li>Pre and Post Clearing checklist to be completed by CGU Environmental<br/>Advisor to identify that weed were managed in accordance with Permit</li> <li>Disposal of weeds it to occur in accordance with Waste CEMP Sub-plan<br/>(MMW6)</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B2 Flora and<br/>Fauna Management measures outlined in the Appendix B9 Waste CEMP<br/>Sub-plan</li> </ul>   |                                    |
| Noise and<br>Vibration | <ul> <li>Demolition of existing structures including:         <ul> <li>Removal of garden beds, parking bays</li> <li>Demolition of existing office buildings</li> <li>Disconnection of services to buildings prior to demolition</li> </ul> </li> <li>Vegetation clearing</li> <li>Installation of noise wall and boundary fencing</li> <li>Property adjustment within C2 ancillary facility:         <ul> <li>Connection of potable water, power and sewer facilities</li> <li>Removal of redundant services for safety purposes</li> </ul> </li> <li>Relocation of overhead power lines at access point on West Botany Street</li> </ul> | Noise impacts to sensitive<br>receivers from works including<br>high impact activities within site,<br>including the use of:<br><ul> <li>Rock hammer to<br/>facilitate the<br/>installation of<br/>wheel wash and<br/>removal of garden<br/>beds and parking<br/>bays</li> <li>Grinders and rattle<br/>guns to assemble<br/>plant and<br/>equipment</li> <li>Chainsaws and<br/>mulchers used<br/>during vegetation<br/>clearing</li> </ul> | 16 (significant)               | <ul> <li>Direct:</li> <li>Impact of works to be assessed prior to works commencing through a Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan including: <ul> <li>Respite periods for high impact noise activities</li> <li>Progressively erecting noise walls</li> <li>Use of temporary screening</li> <li>Monitoring will be carried out in accordance with the CNVIA</li> </ul> </li> <li>Programming of works to minimise the duration of noisy works</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of noise sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>Including list of assessed equipment and mitigation measures required to undertake high impact works in Work Pack's</li> </ul> | 9 (modera                          |

| evel<br>/ing<br>tion | Management Documents / Training<br>Required  |
|----------------------|--|
|                      | <ul> <li>Approved Tree Report under E146</li> <li>Permit to Clear Land and Vegetation: <ul> <li>Pre-clearing checklist</li> <li>Post clearing checklist</li> </ul> </li> <li>Appendix B9 Waste CEMP Sub-plan: <ul> <li>Section 6 Environmental Control Measures</li> </ul> </li> </ul> |
|                      | Appendix B3 Noise and Vibration Preliminary<br>CEMP Sub-plan:  |
|                      | <ul> <li>Section 7 Construction noise and vibration assessment</li> <li>Section 8 Environmental Control</li> </ul>   |
|                      | Measures   |
|                      | <ul> <li>Section 9 Compliance management<br/>(including training)</li> </ul>   |
|                      | CNVIA for preliminary construction including<br>commencement activities (Appendix F to the<br>Noise and Vibration Preliminary CEMP Sub-<br>plan):  |
| erate)               | <ul> <li>Section 5.3 Noise mitigation and<br/>management measures</li> </ul>   |
|                      | <ul> <li>Appendix C Construction Timetable<br/>activities management</li> </ul>  |
|                      | CEMP preliminary construction including<br>commencement activities:  |
|                      | <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> </ul>   |
|                      | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul>   |
|                      | Community Communication Strategy   |

| Issue | Construction activity/aspect   | Potential impact  | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|-------|--|---|--------------------------------|--|---------------------------------------|--|
|       | <ul> <li>Installation of office<br/>amenities</li> <li>Site leveling including haul<br/>roads, piling pads and<br/>laydown areas which<br/>involves:         <ul> <li>Importing clean<br/>material</li> <li>Spreading and<br/>compacting material on<br/>top of existing ground</li> <li>Stabilisation</li> </ul> </li> <li>Where design mandates,<br/>minor piling for footing of the<br/>construction WTP, noise<br/>wall and bentonite plant</li> <li>Delivery and assembly of<br/>plant and equipment</li> <li>Delivery of concrete in<br/>concrete agitators</li> </ul> | <ul> <li>Vibration impacts (human annoyance, property damage) on sensitive receivers from use of vibratory equipment, including the use of: <ul> <li>Vibratory roller to compact clean material during site leveling.</li> <li>Rock hammer to facilitate the installation of wheel wash and removal of garden beds and parking bays</li> <li>Use of compactor or Wacker packer</li> </ul> </li> </ul> | 16 (significant)               | <ul> <li>Direct:</li> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities.</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan and CNVIA. This includes but are not limited to: <ul> <li>Undertaking Condition Surveys prior to activities</li> <li>Abiding by of respite periods high impact activities</li> <li>Substituting equipment where possible</li> <li>Monitoring will be carried out in accordance with the CNVIA</li> </ul> </li> <li>Programming of works to minimise the duration of works</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of vibration sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>Including list of assessed equipment and mitigation measures required to undertake works which are at risk of generating vibration in Work Pack's</li> </ul> | 9 (moderate)                          | <ul> <li>Appendix B3 Noise and Vibration Preliminary<br/>CEMP Sub-plan: <ul> <li>Section 7 Construction noise and<br/>vibration assessment</li> <li>Section 8 Environmental Control<br/>Measures</li> <li>Section 9 Compliance management<br/>(including training)</li> </ul> </li> <li>CNVIA for preliminary construction including<br/>commencement activities (Appendix F to the<br/>Noise and Vibration Preliminary CEMP Sub-<br/>plan): <ul> <li>Section 6.1 Minimum working<br/>distances for vibration intensive plant</li> <li>Section 6.2 Vibration assessment</li> <li>Section 6.3 Vibration mitigation<br/>measures</li> <li>Appendix C Construction Timetable<br/>activities management</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul> </li> <li>Community Communication Strategy</li> </ul> |
|       |  | Noise impacts from out of hour<br>deliveries and works  | 12 (moderate)                  | <ul> <li>Direct:</li> <li>Where possible all works will be undertaken within standard construction hours</li> <li>All OOH deliveries are to be unloaded during standard construction hours</li> <li>OOHW Approval must be obtained prior to works taking place and permit signed onto at pre-start</li> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities. Works to be carried out in accordance with the CNVIA</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> </ul>  | 9 (moderate)                          | <ul> <li>Appendix B3 Noise and Vibration Preliminary<br/>CEMP Sub-plan:</li> <li>Section 7 Construction noise and<br/>vibration assessment</li> <li>Section 8 Environmental Control<br/>Measures</li> <li>Section 9 Compliance management<br/>(including training)</li> <li>CNVIA for preliminary construction including<br/>commencement activities (Appendix F to the<br/>Noise and Vibration Preliminary CEMP Sub-<br/>plan):</li> <li>Section 5.3 Noise mitigation and<br/>management</li> <li>Appendix C Construction Timetable<br/>activities management</li> <li>Out of Hours Work and Construction Fatigue<br/>Protocol (Appendix C to the Noise and Vibration<br/>Preliminary CEMP Sub-plan)</li> <li>Community Communication Strategy</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> </ul>   |

| Issue                     | Construction activity/aspect   | Potential impact  | Risk level prior to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|---------------------------|--|---|--------------------------------|---|---------------------------------------|---|
|                           |  |   |                                | <ul> <li>The Work Pack/s must include assessed plant, equipment and work area along with any mitigation measures which need to be implemented.</li> <li>Direct:</li> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary</li> </ul>  | mitigation                            | <ul> <li>Section 3.6 Competence, training and awareness</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> <li>Community Communication Strategy</li> <li>Appendix B3 Noise and Vibration Preliminary CEMP Sub-plan:         <ul> <li>Section 4.1 Sensitive receivers</li> <li>Section 5 Noise and vibration criteria for NSW</li> <li>Section 7 Construction noise and vibration assessment</li> <li>Section 8 Environmental Control Measures</li> </ul> </li> </ul>  |
|                           |  | Inadequate notification to<br>sensitive receivers impacted by<br>activities associated with C2<br>construction ancillary facility | 12 (moderate)                  | <ul> <li>Notification to be carried out in accordance with mitigation measures outlined<br/>in CNVIA</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks<br/>that will identify the location/s of vibration sensitive receivers and mitigation<br/>measures that must be implemented</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise<br/>and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>The Work Pack/s to be reviewed by Community Relations Advisor</li> </ul> | 9 (moderate)                          | <ul> <li>Section 9 Compliance management<br/>(including training)</li> <li>CNVIA for preliminary construction including<br/>commencement activities (Appendix F to the<br/>Noise and Vibration Preliminary CEMP Sub-<br/>plan): <ul> <li>Section 3 nearest sensitive receivers</li> <li>Section 4 Construction noise and<br/>vibration objectives</li> <li>Section 5.3.2 Noise control and<br/>management measures</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.4 Resources, responsibility<br/>and authority</li> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Section 3.7 Communication</li> </ul> </li> </ul> |
| Soil and<br>Surface Water | <ul> <li>Vegetation removal: soil<br/>caught in root systems of<br/>trees</li> <li>Construction of noise walls<br/>and chain link fencing</li> <li>Where design mandates,<br/>minor piling works for<br/>footings of construction<br/>WTP, noise wall and<br/>bentonite plant</li> </ul> | Impact to surface waters from<br>inappropriate discharge  | 12 (moderate)                  | <ul> <li>Direct:</li> <li>No water to be discharged from C2 ancillary facility</li> <li>Excavations to be protected to divert surface water around excavations (clean water diversion)</li> <li>Existing stormwater drains to be isolated from construction impacts or live network.</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Implementing the TfNSW incident procedure in the event of a non-compliance</li> </ul>  | 6 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure:</li> <li>Water Reuse and Discharge Procedure</li> <li>Erosion and Sediment Control<br/>Management Procedure</li> <li>Project EPL</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul>  |

| Issue | Construction activity/aspect  | Potential impact   | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk leve<br>following<br>mitigatio |
|-------|---|--|--------------------------------|--|-------------------------------------|
|       | <ul> <li>Site leveling for haul roads, piling pads and hardstand areas which involves:         <ul> <li>Importing clean material</li> <li>Spreading and compaction to design levels (on top of existing pavement)</li> <li>Stabilisation</li> </ul> </li> <li>Property adjustments including:         <ul> <li>Disconnection of services to existing buildings</li> <li>Connection of potable water, power and sewer to facilities</li> <li>Removal of redundant services for safety purposes</li> </ul> </li> <li>Installation of erosion and sediment controls</li> <li>Spoil management</li> </ul> | Sediment laden water leaving<br>C2 boundary during rainfall<br>event (including from<br>hardstands, stockpiles, site<br>leveling activities) | 12 (moderate)                  | <ul> <li>Direct:</li> <li>Erosion and Sediment Control Plans (ESCP) would be prepared and implemented</li> <li>Stockpiles to be managed in accordance with Stockpile Management Procedure</li> <li>Regular inspection and maintenance of ESCP controls (as per Erosion and Sediment Control Procedure)</li> <li>Targeted training for key on site personnel who are involved in the installation and maintenance of erosion and sediment controls</li> <li>An experienced soil conservation specialist (CPESC) would be engaged to provide advice regarding erosion and sediment control</li> <li>Hardstand areas and surrounding public roads would be cleaned as required using methods such as brooms, bobcat attachments or street sweepers</li> <li>Monitoring program</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail erosion and sediment control management measures</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>ESCP to be included in Work Packs</li> </ul> | 6 (minor)                           |
|       |   | Mishandling, treatment or<br>disposal of material:<br>•  | 8 (minor)                      | <ul> <li>Direct:</li> <li>No bulk excavation would occur</li> <li>Completion of Site Contamination Report/s (including investigation of groundwater) prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Material from minor works (fencing etc) to be stockpiled in a bunded area with guard layer</li> <li>Material to be removed to a licenced facility</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Implement management measures outlined in the Appendix B9 Waste CEMP Sub-plan</li> <li>Control measures to be included in Work Pack/s</li> </ul>  | 4 (minor)                           |
|       |   | Contamination of soil or water<br>due to spills of hydrocarbons<br>and chemicals related to:   | 8 (minor)                      | Direct:  | 4 (minor)                           |

| evel<br>ing<br>tion | Management Documents / Training<br>Required  |
|---------------------|--|
|                     | <ul> <li>Section 3.2.3 Regulatory requirements<br/>and compliance</li> </ul>   |
|                     | <ul> <li>Section 3.8 Emergency and Incident<br/>Planning</li> </ul>  |
|                     | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C2</li> </ul>                   |
|                     | Appendix A7 TfNSW Incident     Procedure   |
|                     | Appendix B4 Soil and Surface Water<br>Procedure:   |
|                     | Erosion and Sediment Control     Procedure   |
|                     | Stockpile Management Procedure   |
|                     | CEMP preliminary construction including<br>commencement activities:  |
| ior)                | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul> |
|                     | <ul> <li>Section 3.4 Resources, responsibility<br/>and authority</li> </ul>  |
|                     | <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> </ul>   |
|                     | <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul>   |
|                     | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C2</li> </ul>                   |
|                     |  |
|                     | Appendix B4 Soil and Surface Water<br>Procedure:   |
|                     | Stockpile Management Procedure   |
|                     | CEMP preliminary construction including<br>commencement activities:  |
| ior)                | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C2</li> </ul>                   |
|                     | Appendix B9 Waste CEMP Sub-plan:   |
|                     | <ul> <li>Section 6 Environmental control<br/>measures</li> </ul>   |
|                     |  |
| ior)                | Appendix B4 Soil and Surface Water<br>Procedure:   |
|                     |  |

| Issue       | Construction activity/aspect  | Potential impact   | Risk level prior to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|-------------|---|--|--------------------------------|---|---------------------------------------|--|
|             |   | <ul> <li>Mechanical failures</li> <li>Refuelling activities</li> </ul>                   |                                | <ul> <li>Spill kits are to be readily available within the C2 construction ancillary facility at all times</li> <li>The use of any hazardous substances that could result in a spill will be undertaken away from drainage or stormwater lines and, wherever possible, within defined bunds</li> <li>Any refuelling on site must follow a refuelling procedure which includes details on where this activity is permitted, management measures and emergency equipment requirements.</li> <li>All spills or leakages will be immediately contained and cleaned up</li> <li>Spill containment kits will be placed at locations where chemicals are stored or used and where refuelling is permitted</li> <li>Inspection regime for chemical storage facilities and spill kits</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>When handling chemicals it will be done in accordance with Safe Work Method Statement and SDS</li> <li>Implementing the TfNSW incident procedure in the event of a non-compliance</li> </ul> |                                       | <ul> <li>Spill Management Procedure</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> <li>Appendix A4 Site Establishment Management Plan: Site Environment Plan for C2</li> <li>Appendix A7 TfNSW Incident Procedure</li> </ul> |
|             |   | Concrete works (including<br>concrete washout water)<br>escaping containment             | 8 (minor)                      | <ul> <li>Direct:</li> <li>Any washout areas will be adequately sized, regularly maintained, and located in a designated area</li> <li>Concrete agitator truck drivers will be directed to the designated washout area Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> </ul>  | 4 (minor)                             | Appendix B4 Soil and Surface Water         Procedure:         • Water Reuse and Discharge Procedure         CEMP preliminary construction including         commencement activities:         • Section 3.9 Monitoring, inspections and auditing         • Appendix A4 Site Establishment Management Plan: Site Environment Plan for C2                               |
|             |   | Tracking of material onto West<br>Botany Street  | 12 (moderate)                  | <ul> <li>Direct:</li> <li>Wheel wash to be installed at C2 construction ancillary facility</li> <li>Vehicles exiting site to travel through wheel wash</li> <li>Street sweeper to be used to maintain internal haul roads and West Botany Street</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Vehicle Management Plan to direct exiting vehicles through wheel wash</li> </ul>   | 6 (minor)                             | <ul> <li>Appendix B4 Soil and Surface Water<br/>Procedure:</li> <li>Erosion and Sediment Control<br/>Procedure</li> <li>CEMP preliminary construction including<br/>commencement activities:</li> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment<br/>Plan for C2</li> </ul>  |
| Groundwater | <ul> <li>Where design requires piled<br/>footings for noise wall,<br/>construction WTP and<br/>bentonite plant</li> </ul> | Impact/s to groundwater<br>resources (including quality or<br>drawdown) from disturbance | 8 (minor)                      | <ul> <li>Direct:</li> <li>No bulk excavation would be undertaken during preliminary construction or commencement activities.</li> <li>Possible shallow and minor piling works for the footings of hoardings, noise walls, WTP, grout and bentonite plant</li> <li>Completion of Site Contamination Report/s (including investigation of groundwater) prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> </ul>  | 4 (minor)                             | Appendix B4 Soil and Surface Water<br>Procedure:<br>• Water Reuse and Discharge Procedure<br>Appendix B8 Contamination CEMP Sub-plan<br>Geotechnical Interpretative Report   |

| Issue       | Construction activity/aspect   | Potential impact   | Risk level prior to<br>mitigation | Indicative Mitigation Measures  | Risk lev<br>followir<br>mitigati |
|-------------|--|--|-----------------------------------|---|----------------------------------|
| Heritage    | <ul> <li>Where design requires piled footings for noise wall, construction WTP and bentonite plant</li> <li>Property adjustments including:         <ul> <li>Disconnection of services to existing buildings</li> <li>Connection of potable water, power and sewer to facilities</li> <li>Removal of redundant services for safety purposes</li> <li>Vegetation removal including root systems of trees</li> </ul> </li> </ul> | Unexpected heritage finds<br>(indigenous and/or non-<br>indigenous) including<br>unexpected find of human<br>remains | 8 (minor)                         | <ul> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Implement management measures outlined in the Appendix B8<br/>Contamination CEMP Sub-plan and Geotechnical Interpretative Report</li> <li>Direct:</li> <li>Implement Unexpected Heritage Finds and Human Remains Procedure. If an unidentified heritage artefact is suspected: <ul> <li>All works in the immediate vicinity of the find will cease immediately to avoid any further impacts.</li> <li>A qualified archaeologist will be contacted to determine the significance of the object(s).</li> <li>In the event that new Aboriginal site(s) or item(s) are discovered during the proposed investigations, an AHIMS site card will be completed and submitted to the Office of Environment and Heritage (OEH) in accordance with section 89A of the National Parks and Wildlife Act 1974 (NSW). The site card will be lodged within 21 days and a copy provided to Indigenous stakeholders who wish to have a copy.</li> <li>Management recommendations will be developed for newly identified site(s) or items(s) in consultation with registered Indigenous stakeholders, using the precautionary principles of avoidance, mitigation, salvage. Management measures will be determined based on the type of evidence identified, the significance of the site or item identified (scientific and cultural) as well as the nature of potential impacts.</li> </ul> </li> <li>All on site personnel would be provided with site training in regard to Aboriginal Leritage site awareness, key mitigation and management requirements and their responsibilities pertaining to the Aboriginal Heritage provisions of the NPW Act 1974 (NSW) prior to construction commencing. Training will include requirements of the Manage Heritage Procedure and the Unexpected Heritage Finds Procedure and Human Remains Procedure.</li> </ul> | 2 (negligi                       |
|             |  |  |                                   | <ul> <li>Implement management measures outlined in the Appendix B6 Heritage<br/>Management Plan</li> </ul>  |                                  |
| Air Quality | <ul> <li>Importing clean material for<br/>site leveling activities and<br/>associated activities<br/>(spreading, compacting<br/>stockpiling etc.)</li> <li>Rock hammering of garden<br/>beds and parking bays</li> <li>Movement of vehicles and<br/>equipment on surface</li> <li>Stockpiling and handling of<br/>material</li> <li>Demolishing existing<br/>structures</li> <li>Use of street sweeper</li> </ul>              | Emissions from the use of plant<br>and equipment   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Construction plant and equipment will be operated, inspected and maintained to maximise efficiency and comply with relevant emission standards</li> <li>Engine idling will be minimised when plant is stationary, and plant will be switched off when not in use to reduce emissions</li> <li>The use of mains electricity will be favoured over diesel or petrol- powered generators where practicable to reduce site emissions</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Mitigation measures to be included in SWMS for the operation of plant and equipment where applicable</li> </ul>  | 6 (Mino                          |
|             | Application of pesticides to weeds   | Sensitive receivers impacted by<br>dust generated from rock<br>hammering   | 12 (moderate)                     | Direct:   | 9 (modera                        |

| Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|---------------------------------------|--|
|                                       |  |
| 2 (negligible)                        | Appendix B6 Heritage Management Plan:<br>• Unexpected Heritage Finds and<br>Human Remains Procedure  |
| 6 (Minor)                             | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Appendix A Air Quality Monitoring Program</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> </ul> |
| 9 (moderate)                          | Appendix B7 Air Quality and Odour CEMP Subplan:  |

| Issue | Construction activity/aspect | Potential impact  | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk lev<br>followin<br>mitigatic  |           |   |
|-------|------------------------------|---|--------------------------------|--|--|-----------|---|
|       |                              |   |                                | • Effective dust suppression would be applied during works including but not limited to the use of water carts, sprinklers, dust screens, fogging machines etc.  |  |           |   |
|       |                              |   |                                | • Preliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation |  |           |   |
|       |                              |   |                                | Forecast of unfavourable weather conditions will be communicated to<br>construction team   |  |           |   |
|       |                              |   |                                | Inspections will be undertaken on activities with potential to generate dust to monitor the effectiveness of the control measures  |  |           |   |
|       |                              |   |                                | • All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented  |  |           |   |
|       |                              |   |                                | Indirect:  |  |           |   |
|       |                              |   |                                | Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan   |  |           |   |
|       |                              |   |                                | Monitoring and surveillance as per the Air Quality Monitoring program  |  |           |   |
|       |                              |   |                                | Ensure that control measures are communicated and documented into Work Packs   |  |           |   |
|       |                              |   |                                | Direct:  |  |           |   |
|       |                              |   |                                | Hardstands and haul roads within C2 construction ancillary facility will be maintained to minimise and reduce dust generation from exposed surface areas and vehicle movements   |  |           |   |
|       |                              |   |                                |  |  |           | All vehicles exiting the C2 construction ancillary facility will utilise the wheel wash prior to exiting site |
|       |                              |   |                                | Water carts and street sweepers will service haul roads  |  |           |   |
|       |                              | Tracking of material on West<br>Botany Street from vehicle<br>movements from C2 ancillary |                                | 12 (moderate)  | Inspections will be undertaken monitor the effectiveness of the control measures | 9 (modera |   |
|       |                              | facility  |                                | Vehicle Management Plan implemented and monitored by traffic control or<br>delegated person  |  |           |   |
|       |                              |   |                                | Indirect:  |  |           |   |
|       |                              |   |                                | Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan   |  |           |   |
|       |                              |   |                                |  | Monitoring and surveillance as per the Air Quality Monitoring program            |           |   |
|       |                              |   |                                | Vehicle Management Plan to direct exiting vehicles through wheel wash  |  |           |   |
|       |                              |   |                                | Direct:  |  |           |   |
|       |                              | Sensitive receivers impacted by dust generation from site                                 |                                | <ul> <li>Storage of materials that have the potential to result in dust generation<br/>minimised within Project sites at all times</li> </ul>  |  |           |   |
|       |                              |   | 15 (significant)               | <ul> <li>Long term in active stockpiles (e.g. stockpiles undisturbed for longer than 10<br/>days) will be stabilised using soil polymer binders, spray seed, geofabric etc.</li> </ul>   | 10 (modera   |           |   |
|       |                              | activities (spreading,<br>compacting stockpiling etc.)                                    |                                | Controls outlined in Stockpile Management Procedure to be implemented  |  |           |   |
|       |                              | sectory acting stoorprining story   |                                | <ul> <li>Water suppression will be applied during activities to minimise the generation<br/>of dust</li> </ul>   |  |           |   |
|       |                              |   |                                | Inspections will be undertaken monitor the effectiveness of the control measures   |  |           |   |
|       |                              |   | 1                              |  |  |           |   |

| Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|---------------------------------------|---|
|                                       | <ul> <li>Section 6 Environmental control<br/>measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring<br/>Program</li> <li>CEMP preliminary construction including<br/>commencement activities:         <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul> </li> </ul>                                |
| 9 (moderate)                          | Appendix B7 Air Quality and Odour CEMP Sub-<br>plan:<br>Section 6 Environmental control<br>measures (Table 9)<br>Section 7 Compliance management<br>Appendix A Air Quality Monitoring<br>Program  |
| 10 (moderate)                         | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>Appendix B4 Soil and Surface Water Management Procedure: <ul> <li>Stockpile Management Procedure</li> </ul> </li> <li>CEMP preliminary construction including commencement activities:</li> </ul> |

| Participant procession insuding commencement activities with the patiential to example during outprovide to ensume during conditions to reace during or example during outprovide water conditions with the communication to construction the construction with the communication to construction the construction with the communication to communication the communication to maningeness the construction with the communication to communication the communication to maningeness continuence and construction with the communication of maningeness the commun | Issue | Construction activity/aspect | Potential impact | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk lev<br>followin<br>mitigatio |  |  |  |  |
|---|-------|------------------------------|------------------|--------------------------------|--|-----------------------------------|--|--|--|--|
| Sensitive receivers impacted by       12 (moderate)         All instructures outlined in the Appendix BF and and maintained       6 (mid         Instructure that control measures are communicated and counterted into Work Packs       6 (mid         Dust generation from impacer       12 (moderate)         12 (moderate)       12 (mo   |       |                              |                  |                                | to generate dust would be managed (modified, reduced or ceased) during       |                                   |  |  |  |  |
| Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan<br>implementation of management measures outlined in the Stockpile<br>Management Decodure Isocaed in Appendix B4 Soil and Surface Water<br>Measurement Procedure<br>Insure that control measures are communicated and documented into Work<br>Packs           Dust generation from improper<br>use of street sweeper         12 (modemie)         Direct:<br>12 (modemie)         Construction for antigement with relevant mission standards         Format<br>(modemie)           Dust generation from improper<br>use of street sweeper         12 (modemie)         Pre-start to be confucid on street sweeper<br>Pre-start to be confusion and migration measures that must be<br>implemented.         Format<br>(modemie)         Format<br>(modemie) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td></td<>  |       |                              |                  |                                |  |                                   |  |  |  |  |
| Sensitive receivers impacted by<br>dust form demoliton activities       12 (moderate)   |       |                              |                  |                                | Indirect:  |                                   |  |  |  |  |
| Sensitive receivers impacted by<br>dust form demolition activities       12 (moderate)       12 (moderate)       12 (moderate)       9 (mode<br>measures)         1 2 (moderate)       12 (moderate)       12 (moderate)       9 (mode<br>measures)       9 (mode<br>measures)       9 (mode<br>measures)   |       |                              |                  |                                |  |                                   |  |  |  |  |
| Sensitive receivers impacted by<br>dust form demolition activities         12 (moderate)         21 (moderate)         21 (moderate)         21 (moderate)         21 (moderate)         21 (moderate)         9 (moderate)           1 2 (moderate)         12 (moderate)         12 (moderate)         12 (moderate)         12 (moderate)         9 (moderate)   |       |                              |                  |                                | Management Procedure located in Appendix B4 Soil and Surface Water           |                                   |  |  |  |  |
| Image: Substrate in the second seco |       |                              |                  |                                | Monitoring and surveillance as per the Air Quality Monitoring program        |                                   |  |  |  |  |
| <ul> <li>Construction plant and equipment will be operated, inspected and maintained to maximise effectinely and compty with relevant emission standards.</li> <li>Supervisor to assess compatency of operator of street sweeper</li> <li>Pre-start to be conducted on street sweeper are not sufficient, water will be applied using water card rohse until issue is rectified</li> <li>Where water sprays on street sweeper are not sufficient, water will be applied using water card rohse until issue is rectified</li> <li>Hall on site personnel would undergo a site induction and orgoing toolbox talks in replementation</li> <li>Inglementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Inglementation of existing structures to miximise distignmentation.</li> <li>HeadMark 12 (moderate)</li> <li>Inglementation including commensation of existing structures to miximise distignmentation.</li> <li>HeadMark 12 (moderate)</li> <li>Inglementation including commensation of existing structures to miximise distignmentation.</li> <li>HeadMark 12 (moderate)</li> <li>Inglementation including commensation activities</li> <li>Preliminary construction including commensation activities</li> <li>Preliminary construction including commensation is dust generation.</li> <li>Forecast of untravourable weather conditions will be communicated to construction team.</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will indefity correct behaviours and mitigation measures of the control measures.</li> <li>Inglementation is the content potential induction and ongoing toolbox talks that will be indefitive to the potential of tool generation.</li> <li>Forecast of untravourable weather conditions will be communicated to construction including commensates that must be implemented.</li> <li>Inglementation of management measures outined in the Appendix B7 Air Quality and Odour CEMP Sub-plan.&lt;</li></ul>   |       |                              |                  |                                |  |                                   |  |  |  |  |
| Sensitive receivers impacted by dust form demolition activities       12 (moderate)       12 (moderate)       12 (moderate)       0   |       |                              |                  |                                | Direct:  |                                   |  |  |  |  |
| Dust generation from improper use of street sweeper       12 (moderate) <ul> <li>Pre-start to be conducted on street sweeper are not sufficient, water will be applied using water cart or hose until issue is rectified</li> <li>Where water sprays on street sweeper are not sufficient, water will be applied using water cart or hose until issue is rectified</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Montoring and surveillance as per the Air Quality Monitoring program</li> </ul> <ul> <li>Direct:</li> <li>Effective dust suppression to be applied during demolition of existing structures to minimise dust generation</li> <li>HAZIMAT Surveys and removal of asbestos prior to demolition activities</li> </ul> <ul> <li>Preliminary construction including commentement activities with the potential to dust generation</li> <li>HAZIMAT Surveys and removal of asbestos prior to demolition activities</li> <li>Preliminary construction team</li> <li>Construction team</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks implemented</li> <li>Matter will be undertaken monitor the effectiveness of the control measures individent will be undertaken monitor the effectiveness of the control measures individent will be undertaken monitor the effectiveness of the control measures indirect</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> </ul> <ul></ul>  |       |                              |                  |                                |  |                                   |  |  |  |  |
| Dust generation from improper use of street sweeper       12 (moderate)       • Where water sprays on street sweeper are not sufficient, water will be applied using water cart of hose until issue is rectified       6 (min stip ensonnel would undergo a site induction and ongoing toolbox talks in mplemented         Indirect:       • Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan       • Effective dust suppression to be applied during demolition of existing structures to minimise dust generation       • Fertiminary construction including commencement activities         Sensitive receivers impacted by dust form demolition activities       12 (moderate)       • If (moderate)       • Forecast of unfavourable weather conditions will be communicated to construction heat will dentify correct behaviours and mitigation measures that must be implemented       • (min suppression to be applied during demolition of existing structures to minimise dust generation       • HAZMAT surveys and removal of asbestos prior to demolition activities       • (moderate)         12 (moderate)       12 (moderate)       • 12 (moderate)       • Forecast of unfavourable weather conditions to reduce the potential for dust generation       • Homewall surveys and removal of asbestos prior to demolition activities       • (moderate)         12 (moderate)       • 12 (moderate)       • Forecast of unfavourable weather conditions will be communicated to construction head       • (moderate)       • (moderate)       • (moderate)       • (moderate)       • (moderate)       • (moderat)       • (moderate)       • (moderate)   |       |                              |                  |                                | Supervisor to assess competency of operator of street sweeper                |                                   |  |  |  |  |
| Dust generation from improper use of street sweeper       12 (moderate)       using water car or hose until issue is rectified       6 (min the second issue is nectified)         Image: the second issue of street sweeper       12 (moderate)       12 (moderate)       Image: the second issue of street sweeper       6 (min the second issue is nectified)       6 (min the second issue issue issue issue is nectified)       6 (  |       |                              |                  |                                | • Pre-start to be conducted on street sweeper daily and any faults rectified |                                   |  |  |  |  |
| Sensitive receivers impacted by dust form demolition activities       12 (moderate)         12 (moderate)       12 (moderate)         12 (moderate)       - All on site personnel would undergo a site induction and ongoing toolbox takes implemented         12 (moderate)       - Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan         0       Monitoring and surveillance as per the Air Quality Monitoring program         0       Direct:         • HAZMAT surveys and removal of asbestos prior to demolition of existing structures to minimise dust generation         • HAZMAT surveys and removal of asbestos prior to demolition activities         • Preliminary construction including commencement activities with the potential to generation         • All on site personnel would undergo a site induction measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan  |       |                              |                  |                                | 12 (moderate)  |                                   | 6 (mino  |  |  |  |
| Sensitive receivers impacted by dust form demolition activities       12 (moderate)         12 (moderate)       12 (moderate)         12 (moderate)       12 (moderate)         11 (mplementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan       9 (moderate)   |       |                              |                  |                                | use of street sweeper  |                                   | that will identify correct behaviours and mitigation measures that must be |  |  |  |
| Sensitive receivers impacted by dust form demolition activities       12 (moderate)         12 (moderate)       12 (moderate)         12 (moderate)       12 (moderate)   |       |                              |                  |                                | Indirect:  |                                   |  |  |  |  |
| Direct:       • Effective dust suppression to be applied during demolition of existing structures to minimise dust generation       • HAZMAT surveys and removal of absences prior to demolition activities         Sensitive receivers impacted by dust form demolition activities       12 (moderate)       • Freliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation       • MAZMAT surveys and removal of absence potential for dust generation       • MAZMAT surveys and removal of absence potential for dust generation         • HAZMAT surveys and removal of absence potential for dust generation       • HAZMAT surveys and removal of absence potential for dust generation       • MAI on site personnel would be managed (modified, reduced to construction team       • Forecast of unfavourable weather conditions will be communicated to construction team         • All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented       • Inspections will be undertaken monitor the effectiveneess of the control measures         • Indirect:       • Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan   |       |                              |                  |                                |  |                                   |  |  |  |  |
| <ul> <li>Sensitive receivers impacted by dust form demolition activities</li> <li>12 (moderate)</li> <li>13 (moderate)</li> <li>14 (moderate)</li> <li>12 (moderate)</li> <li>12 (moderate)</li> <li>12 (moderate)</li> <li>12 (moderate)</li> <li>12 (moderate)</li> <li>13 (moderate)</li> <li>14 (moderate)</li> <li>15 (moderate)</li> <li>16 (moderate)</li> <li>17 (moderate)</li> <li>18 (moderate)</li> <li>19 (moderate)</li> <li>10 (moderate</li></ul>  |       |                              |                  |                                | Monitoring and surveillance as per the Air Quality Monitoring program        |                                   |  |  |  |  |
| Sensitive receivers impacted by dust form demolition activities       12 (moderate)       12 (moderate)       • HAZMAT surveys and removal of asbestos prior to demolition activities       • Preliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation       • Forecast of unfavourable weather conditions will be communicated to construction team       • Forecast of unfavourable weather conditions will be communicated to construction team       • All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented       • Inspections will be undertaken monitor the effectiveness of the control measures       • Indirect:         • Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan       • Implementation of management measures       • Implementation of management measures       • Implementation of management measures   |       |                              |                  |                                | Direct:  |                                   |  |  |  |  |
| <ul> <li>Preliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation</li> <li>Forecast of unfavourable weather conditions will be communicated to construction team</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented</li> <li>Inspections will be undertaken monitor the effectiveness of the control measures</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> </ul>  |       |                              |                  |                                |  |                                   |  |  |  |  |
| Sensitive receivers impacted by<br>dust form demolition activities       12 (moderate)       Image: to generate dust would be managed (modified, reduced or ceased) during<br>unfavourable weather conditions to reduce the potential for dust generation       9 (moderate)         Image: Imag  |       |                              |                  |                                | HAZMAT surveys and removal of asbestos prior to demolition activities        |                                   |  |  |  |  |
| Sensitive receivers impacted by<br>dust form demolition activities       12 (moderate)       construction team       All on site personnel would undergo a site induction and ongoing toolbox talks<br>that will identify correct behaviours and mitigation measures that must be<br>implemented       9 (moderate)         Inspections will be undertaken monitor the effectiveness of the control<br>measures       Inspections will be undertaken monitor the effectiveness of the control<br>measures       9 (moderate)         Indirect:       Indirect:       Indirect:       Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan       9 (moderate)  |       |                              |                  |                                | to generate dust would be managed (modified, reduced or ceased) during       |                                   |  |  |  |  |
| <ul> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented</li> <li>Inspections will be undertaken monitor the effectiveness of the control measures</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> </ul>   |       |                              |                  | 12 (mederate)                  |  | 0 (modera                         |  |  |  |  |
| measures         Indirect:         Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan  |       |                              |                  | 12 (moderate)                  | that will identify correct behaviours and mitigation measures that must be   | 9 (modera                         |  |  |  |  |
| Implementation of management measures outlined in the Appendix B7 Air<br>Quality and Odour CEMP Sub-plan  |       |                              |                  |                                |  |                                   |  |  |  |  |
| Quality and Odour CEMP Sub-plan   |       |                              |                  |                                | Indirect:  |                                   |  |  |  |  |
| Monitoring and surveillance as per the Air Quality Monitoring program   |       |                              |                  |                                |  |                                   |  |  |  |  |
|   |       |                              |                  |                                | Monitoring and surveillance as per the Air Quality Monitoring program        |                                   |  |  |  |  |

| evel<br>/ing<br>tion | Management Documents / Training<br>Required  |
|----------------------|--|
|                      | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the<br/>use of Work Packs (Table 6)</li> </ul>   |
| ior)                 | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.4 Resources, responsibilities and authority</li> </ul> |
| erate)               | Appendix B7 Air Quality and Odour CEMP Sub-<br>plan:<br>• Section 6 Environmental control<br>measures (Table 9)<br>• Section 7 Compliance management<br>• Appendix A Air Quality Monitoring<br>Program   |

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| Issue         | Construction activity/aspect   | Potential impact   | Risk level prior to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|---------------|--|--|--------------------------------|---|---------------------------------------|---|
|               |  | Application of pesticides result<br>in chemical travelling beyond<br>C2 construction ancillary facility<br>boundary. | 8 (minor)                      | <ul> <li>Direct:</li> <li>The application of pesticides will be modified, reduced or controlled during high or unfavourable wind conditions where wind can carry pesticides beyond the C2 project boundary</li> <li>An Environmental Work Method Statement will be developed on the application of pesticides and activity carried out in accordance with this EWMS</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Implementation of management measures outlined in the Weed Management Procedure found in Appendix B2 Flora and Fauna Management Procedure</li> <li>Implementation of management measures outlined in the EWMS</li> </ul>   | 4 (minor)                             | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>Appendix B2 Flora and Fauna Management Procedure:</li> <li>Weed Management Procedure</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> </ul>   |
| Contamination | <ul> <li>Where design mandates piled footings for noise wall, construction WTP and bentonite plant</li> <li>Property adjustments including:         <ul> <li>Disconnection to existing buildings</li> <li>Connections of potable water, power and sewer to facilities</li> <li>Removal of redundant services for safety purposes</li> </ul> </li> <li>Vegetation removal: soil caught in root systems of trees</li> <li>Construction of footings for noise walls and chain link fencing</li> </ul> | Disturbance of contaminated material   | 12 (moderate)                  | <ul> <li>Direct:</li> <li>No bulk excavation will be undertaken at C2 construction ancillary facility during preliminary construction activities</li> <li>Completion of Site Contamination Report/s prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Implementation of the TfNSW Unexpected Contaminated Lands and Asbestos Finds Procedure (Appendix A of the Appendix B8 Contamination CEMP Sub-plan)</li> <li>Stockpiles to be managed in accordance with Stockpile Management Procedure (Appendix B4 Soil and Surface Water Management Procedure)</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B8 Contamination CEMP Sub-plan</li> <li>Ensure that control measures are communicated and documented into Work Packs</li> </ul> | 9 (moderate)                          | <ul> <li>Appendix B8 Contamination CEMP Sub-plan:</li> <li>Section 4 Existing environment</li> <li>Section 6 Environmental control measures</li> <li>Section 7 Compliance Management</li> <li>Appendix A TfNSW Unexpected Contaminated Land and Asbestos Finds Procedure</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> <li>Appendix A4 Site Environmental Management Plan Appendix A Site Environment Plan for C2</li> <li>Appendix B4 Soil and Surface Water Management Procedure:</li> <li>Stockpile Management Procedure</li> </ul> |

| Issue | Construction activity/aspect   | Potential impact   | Risk level prior to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|-------|--|--|--------------------------------|--|---------------------------------------|---|
|       |  | Exposure of personnel to<br>unidentified contaminated<br>materials during works  | 12 (moderate)                  | <ul> <li>Direct:</li> <li>No bulk excavation will be undertaken during preliminary construction or commencement activities</li> <li>Completion of Site Contamination Report/s prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Induct construction personnel in the identification and management of previously unidentified contaminated sites.</li> <li>The discovery of previously unidentified contaminated material will be managed in accordance with an Unexpected Contaminated Land Finds Procedure. The procedure will include: <ul> <li>Cease work in the vicinity</li> <li>Initial assessment by an appropriately qualified environmental consultant</li> <li>Further assessment and management of contamination, if confirmed, in accordance with Section 105 of the CLM Act</li> </ul> </li> </ul> | 6 (minor)                             | <ul> <li>Appendix B8 Contamination CEMP Sub-plan:</li> <li>Section 4 Existing environment</li> <li>Section 6 Environmental control measures</li> <li>Section 7 Compliance Management</li> <li>Appendix A TfNSW Unexpected Contaminated Land and Asbestos Finds Procedure</li> </ul>   |
|       | <ul> <li>Importing clean material<br/>(e.g. stabilised DGB, VEMN<br/>/ tunnel spoil) for site<br/>leveling activities</li> <li>Waste services collecting<br/>skips and front-loading bins</li> <li>Waste materials generated<br/>from:         <ul> <li>Demolition</li> <li>Packaging from<br/>deliveries</li> <li>Maintenance of</li> </ul> </li> </ul> | Inappropriate disposal of waste<br>(including demolition, vegetation<br>and hazardous / special waste)<br>including disposal of waste at<br>an unlicensed waste facility | 15 (significant)               | <ul> <li>Direct:</li> <li>Waste classification in accordance with EPA guidelines</li> <li>Suitably licensed waste contractors would be used for the collection and transport of all wastes for either offsite processing and/or disposal to an appropriately licensed facility</li> <li>Receipts for waste transfer and disposal would be checked to ensure all details are correct and retained for audit purposes</li> <li>Implementation of a waste tracking register</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that detail waste and resource management measures</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B9 Waste CEMP Sub-plan</li> </ul>   | 9 (moderate)                          | <ul> <li>Appendix B9 Waste CEMP Sub-plan:</li> <li>Section 4.4 Waste management<br/>Hierarchy</li> <li>Section 4.5 Classification of waste<br/>streams</li> <li>Section 4.6 Management of waste<br/>streams</li> <li>Section 4.7 Waste tracking</li> <li>Section 6 Environmental control<br/>measures</li> <li>Section 7 Compliance management</li> </ul> |
| Waste | plant and  | Inappropriate material bought to site for leveling purposes  | 15 (significant)               | <ul> <li>Direct:</li> <li>Imported clean material suitable for the purpose of site leveling as per design requirements</li> <li>Imported clean material may also be bought to site under a Resource Recovery Exemption</li> <li>Evidence of compliance to the Resource Recovery Order will be requested and inspections carried out on material</li> <li>Imported material its source will be tracked</li> </ul>   | 9 (moderate)                          | Appendix B8 Contamination CEMP Sub-plan:<br>• Section 7 Compliance Management   |
|       | <ul> <li>Soil from tree roots</li> <li>Minor<br/>piling/footings<br/>activities where<br/>required</li> <li>Litter from workforce,<br/>visitors and staff</li> </ul>   | Litter, inappropriate use of co-<br>mingling and waste receptacles   | 8 (minor)                      | <ul> <li>Direct:</li> <li>All recyclable solid wastes (paper/ cardboard/ plastic/ glass/ timber/ metals/<br/>fluorescent lighting/ printer cartridges/ICT equipment) would be segregated<br/>for recycling purposes and volumes reported. Wherever possible, packaging<br/>should be avoided or minimised to prevent waste products being<br/>unnecessarily brought to site.</li> <li>All staff and subcontractors would undergo a site induction and ongoing<br/>toolbox talks that will detail waste and resource management measures<br/>(including the waste management hierarchy) and energy consumption</li> </ul>   | 2 (negligible)                        | <ul> <li>Appendix B9 Waste CEMP Sub-plan:</li> <li>Section 4.4 Waste management<br/>Hierarchy</li> <li>Section 4.5 Classification of waste<br/>streams</li> <li>Section 4.6 Management of waste<br/>streams</li> <li>Section 4.7 Waste tracking</li> </ul>  |

| Issue                                      | Construction activity/aspect  | Potential impact  | Risk level prior to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required  |
|--|---|---|--------------------------------|---|---------------------------------------|--|
|  |   |   |                                | <ul> <li>Indirect:</li> <li>Implement management measures outlined in the Sustainability Management<br/>Plan and Appendix B9 Waste CEMP Sub-plan</li> </ul>   |                                       | <ul> <li>Section 6 Environmental control<br/>measures</li> <li>Section 7 Compliance management</li> <li>Sustainability Management Plan</li> </ul>  |
| Leachate and Landfill Gas                  | The Leachate and Landfill Gas CI  | EMP Sub-plan (CoA C7) does not  | apply to C2 Rockdale D         | Depot construction ancillary facility.  |                                       |  |
| General<br>including Site<br>Establishment |   | Inadequate notification to<br>relevant stakeholders of<br>incident and/or non-<br>conformance   | 12 (moderate)                  | <ul> <li>Direct:</li> <li>Potential and actual non-compliances will be classified and reported in accordance with the TfNSW Environmental Incident Classification and Reporting Procedure</li> <li>A Pollution Incident Response Management Plan (PIRMP) will be prepared and implemented</li> <li>Indirect:</li> <li>All works will be carried out in accordance with the CPB Contractors Construction management System (certified to conform to AS/NZS ISO 14001:2016 Environmental management systems – Requirements with</li> </ul>  | 9 (moderate)                          | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.8 Emergency and Incident Planning</li> <li>Section 3.10 Environmental non-conformities</li> </ul>               |
|  | <ul> <li>Refurbishment and upgrade<br/>of offices and amenities</li> <li>Construction of noise walls<br/>and chain link fences</li> <li>Vehicles exiting C2 onto<br/>West Botany Street</li> <li>Removal of vegetation<br/>within C2 construction<br/>ancillary facility</li> </ul> | Visual amenity impact on<br>adjacent sensitive receivers<br>including:<br>Light spill<br>Boundary screening<br>Overshadowing<br>Overlooking<br>Graffiti       | 9 (moderate)                   | <ul> <li>guidance for use)</li> <li>Direct: <ul> <li>The SSI number and Project name will be displayed at the entrance to the ancillary facility</li> <li>The ancillary facility will be designed to limit overshadowing of sensitive receivers</li> <li>No facilities will look down into sensitive receivers</li> <li>Lights are to be directed down and away from residential receivers</li> <li>Where required, shields are to be placed on lights to direct light away from residential receivers</li> <li>Lighting to inspected regularly during environmental inspections or during noise monitoring to ensure light spill measures are effective</li> <li>Sensitive receivers located opposite the West Botany Street access to be consulted on options for reducing impacts of light spill from headlights of exiting vehicles</li> <li>Contact information will also be provided in the form of the Project Hotline and Information email address</li> </ul> </li> <li>Indirect: <ul> <li>Implementation of management measures outlined in the Appendix A4 Site Establishment Management Plan</li> </ul> </li> </ul> | 6 (minor)                             | CEMP preliminary construction including<br>commencement activities:<br>• Appendix A4 Site Establishment<br>Management Plan   |
|  |   | Undertaking activities, not<br>described in the approved<br>CEMP Preliminary<br>construction including<br>commencement activities and<br>this risk assessment | 12 (moderate)                  | All works will be carried out in accordance with the CPB Contractors<br>Construction management System including ongoing environmental risk and<br>opportunities identification during the development and review of:<br>Project Risk Register (as per the Risk Management Plan: M6S1-<br>CGU-NWW-PCRM-MPL-000800)<br>Construction Area Plan Risk Assessments (CAPRAs)<br>Work Packs, including Work Pack Risk Assessment<br>Environmental Work Method Statements (EWMS) or Safe Work<br>Method Statements (SWMSs), which address environmental risks<br>(as applicable)  | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul> |

| Issue | Construction activity/aspect | Potential impact  | Risk level prior to<br>mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training<br>Required   |
|-------|------------------------------|---|-----------------------------------|--|---------------------------------------|---|
|       |                              | Environmental objectives and<br>targets outlined in CEMP<br>Preliminary construction<br>including commencement<br>activities (Section 3.3.1) are<br>not met including:<br>Inspections<br>Monitoring | 12 (moderate)                     | <ul> <li>Pre-start meetings</li> <li>Undertaking regular internal inspections and monitoring Undertaking inspection with external stakeholders including the ER, AA and Project Soil Conservationist</li> <li>Regular internal inspections and monitoring including:         <ul> <li>Air quality monitoring as per Monitoring Program</li> <li>Noise and vibration monitoring as per Monitoring Program</li> <li>Ongoing pre-construction groundwater and surface water monitoring to continue</li> </ul> </li> <li>Undertaking inspection with external stakeholders including the ER, AA and Project Soil Conservationist</li> <li>All works will be carried out in accordance with the CPB Contractors Construction management System (certified to conform to AS/NZS ISO 14001:2016 Environmental management systems – Requirements with guidance for use)</li> </ul> | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.4 Resources, responsibilities and authority</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul> |
|       |                              | Inadequate consultation with<br>stakeholders outlined in<br>Section 2 of the CEMP<br>Preliminary construction<br>including commencement<br>activities   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Consultation will be undertaken in accordance with the Staging Report and CEMP Preliminary construction including commencement activities</li> <li>Evidence of consultation and responses to queries will be provided within CEMP Sub-plans</li> </ul>   | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 2 Consultation, endorsement and approval</li> </ul>  |

## C3 Bicentennial Park (including MOC3) construction ancillary facility



Figure 4 Stage 1 Preliminary construction activities at C3 Bicentennial Park (including MOC3) construction ancillary facility

<sup>35 |</sup> M6 Stage 1 CEMP: Preliminary construction including commencement activities Appendix A2: Aspects and Impacts Register 20 October 2021 Version 01 UNCONTROLLED WHEN PRINTED

## Table 3 Aspect and impacts register for C3 Bicentennial Park construction ancillary facility

| Issue                 | Construction activity/aspect  | Potential impact   | Risk level prior<br>to mitigation  | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation  | Management Documents / Training Required  |
|-----------------------|---|--|--|---|--|---|
|                       | <ul> <li>Light vehicles entering site: <ul> <li>Anticipated peak daily light vehicle movements (i.e. movement of vehicle in and out of site): 52</li> <li>Workforce, staff and visitors vehicles</li> <li>Delivery of small-scale construction materials in vans</li> </ul> </li> <li>Heavy vehicles entering site: <ul> <li>Anticipated peak daily heavy vehicle movements (i.e. movement of vehicle in and out of site): 80</li> <li>Delivery of plant and equipment on semitrailers, some oversized</li> </ul> </li> </ul>   | Increased vehicle movements<br>into construction ancillary<br>facility | 12 (moderate)  | <ul> <li>Direct:</li> <li>The preliminary construction and commencement activities undertaken at C3 will not include activities that impact the operation of the road network</li> <li>Spoil haulage will not be undertaken during preliminary construction including commencement activities</li> <li>Access to C3 would be via the existing access points on West Botany Street (Access arrangements and direction within procedure).</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail traffic and access management measures</li> <li>Vehicle Management Plan will be distributed to all subcontractors who need to attend site</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of Construction Parking and Access Strategy</li> </ul> | 6 (minor)  | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure which includes: <ul> <li>Anticipated peak daily vehicle movements to C3</li> <li>Development of Vehicle Management Plans</li> <li>Outline of site access requirements</li> <li>Communication and training which will be undertaken</li> </ul> </li> <li>CEMP preliminary construction including commencement activities: <ul> <li>Section 3.4 Resources, responsibilities and authority</li> <li>Section 3.5 Selection and management of subcontractors</li> <li>Section 3.6 Competence, training and awareness</li> </ul> </li> </ul> |
| Traffic and<br>Access | <ul> <li>Delivery of construction materials on flatbed trucks</li> <li>Delivery of concrete and shotcrete via concrete agitator</li> <li>Delivery and removal of portable buildings</li> <li>Fuel tankers distributing fuel and refilling at designated refuelling area</li> <li>Other:         <ul> <li>Street sweeper routinely maintaining internal haul roads and Marsh Street</li> <li>Special purpose trucks servicing waste skips and front-loading bins</li> <li>Vacuum trucks conducting service investigation, cleaning of drains, pipes and services within construction ancillary facility</li> <li>Traffic control facilitating the removal of overhead powerlines outside MOC3 construction ancillary facility, sewer relocation</li> </ul> </li> </ul> | 12 (moderate)  | <ul> <li>Direct:</li> <li>Out of hour deliveries would be unloaded during standard construction hours to avoid disruption to sensitive receivers</li> <li>Sensitive receivers to be notified of any OOH deliveries or works</li> <li>Where possible, overhead powerlines will be removed during standard construction hours <ul> <li>Where this is not permitted under a ROL, the OOHW and Construction Fatigue Protocol will be implemented (Appendix C of the Noise and Vibration Preliminary CEMP Sub-plan</li> <li>Mitigation measures will follow those outlined in the CNVIA for Preliminary construction including commencement activities</li> </ul> </li> <li>Indirect: <ul> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan</li> </ul> </li> </ul> | 6 (minor)   | <ul> <li>Appendix B1 Traffic and Access Management<br/>Procedure:</li> <li>Section 2.2 Road occupancy licenses</li> <li>Section 2.6 Communication and training<br/>Appendix B3 Noise and Vibration Preliminary Sub-<br/>plan:</li> <li>Appendix C OOHW and Construction<br/>Fatigue Protocol</li> <li>Appendix F CNVIA preliminary<br/>construction including commencement<br/>activities</li> <li>Community Communication Strategy</li> </ul> |   |
|                       |   | 12 (moderate)  | <ul> <li>Direct:</li> <li>Parking on site would be available for workforce, staff and visitors</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail parking and transport management measures</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure.</li> <li>Implementation of Construction Parking and Access Strategy.</li> </ul>   | 6 (minor)   | Appendix B1 Traffic and Access Management<br>Procedure:<br>• Section 2.6 Communication and training<br>Construction Parking and Access Strategy  |   |
|                       | and street trees which limit access into site   | Vehicles using local roads   | 12 (moderate)  | Direct:   | 6 (minor)  | Appendix B1 Traffic and Access Management<br>Procedure which includes:  |

| Issue              | Construction activity/aspect                                      | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk leve<br>following<br>mitigatio |
|--------------------|---|---|-----------------------------------|---|-------------------------------------|
|                    |   | Traffic disruption  | 12 (moderate)                     | <ul> <li>All construction traffic would use the most direct route to the closest arterial and motorway network to minimise impacts on local roads</li> <li>Access to C3 construction ancillary facility from West Botany Road Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> <li>Implementation of Construction Access and Parking Strategy</li> <li>Direct:</li> <li>Traffic control will be carried out in accordance with Traffic Guidance Schemes</li> <li>Programming of works to minimise the duration of works</li> <li>Community liaison and notification</li> <li>All complaints will be handled in accordance with the Complaints Management System</li> <li>Where required, pedestrians will be directed around work areas on alternative footpaths using signage, variable message boards or traffic controllers</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B1 Traffic and Access Management Procedure</li> </ul>  | 7 (minor                            |
| Flora and<br>Fauna | • Removal of vegetation within C3 (urban native and exotic cover) | Clearing outside an approved<br>area and/or the removal or<br>pruning of tree/s not approved<br>under Clearing and Grubbing<br>Plan | 9 (moderate)                      | <ul> <li>Direct:</li> <li>Clearly delineate exclusion zone of the PCT and TECs: <ul> <li>PCT and TECs will not to be cleared during Stage 1 preliminary construction</li> </ul> </li> <li>Hold point for the Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include: <ul> <li>Location of habitat trees or threatened flora (Pre-Clearing Survey E43)</li> <li>No-Go Zones (Safety, Heritage or Ecological)</li> <li>Sensitive Areas</li> <li>Noise Catchment Areas</li> <li>Trees approved to be removed, pruned/trimmed and retained (Approved Tree Report under E146)</li> <li>Clearance boundary</li> <li>Details on stages of work</li> <li>Working hours</li> <li>Location of weed (if applicable E42)</li> </ul> </li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place</li> <li>Clearly delineate the C3 construction ancillary facility boundary (survey) prior to clearing activities taking place in accordance with the Clearing and Grubbing Plan</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> </ul> | 6 (minor                            |

| ing<br>ion | Management Documents / Training Required  |
|------------|---|
|            | Outline of access requirements  |
|            | <ul> <li>Communication and training which will<br/>be undertaken</li> </ul>   |
|            | Construction Parking and Access Strategy  |
|            |   |
|            | Appendix B1 Traffic and Access Management<br>Procedure which includes:  |
| or)        | <ul> <li>Mitigation Measures for Vehicle<br/>Movements</li> </ul>   |
|            | <ul> <li>Communication and training which will<br/>be undertaken</li> </ul>   |
|            |   |
| or)        | <ul> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:</li> <li>Appendix A Clearing and Grubbing<br/>Procedure</li> <li>Clearing and Grubbing Plan: <ul> <li>Approved Tree Report under E146</li> </ul> </li> <li>Permit to Clear Land and Vegetation: <ul> <li>Pre-clearing checklist</li> <li>Post clearing checklist</li> </ul> </li> <li>CEMP: preliminary construction including<br/>commencement activities: <ul> <li>Appendix A4 Site Establishment<br/>Management Plan Appendix A Site<br/>Environmental Plan for C3</li> </ul> </li> </ul> |
|            |   |
|            |   |

| Issue | Construction activity/aspect | Potential impact                               | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk leve<br>following<br>mitigatior |
|-------|------------------------------|--|-----------------------------------|---|--------------------------------------|
|       |                              | Damage to vegetation<br>(including) tree roots | 9 (moderate)                      | <ul> <li>Pre and Post Clearing checklist to be completed by CGU Environmental Advisor</li> <li>Indirect:         <ul> <li>Implement management measures outlined in the Appendix B2 Flora and Fauna Management Procedure</li> </ul> </li> <li>Direct:         <ul> <li>Hold point for the Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include:                <ul> <li>Location of habitat trees or threatened flora (Pre-Clearing Survey)</li> <li>No-Go Zones (Safety, Heritage or Ecological)</li> <li>Sensitive Areas</li> <li>Noise Catchment Areas</li> <li>Trees approved to be removed, pruned/trimmed and retained (Approved Tree Report under E146)</li> <li>Clearance boundary</li> <li>Details on stages of work</li> <li>Working hours</li> <li>Location of weed (if applicable E42)</li> <li>Implement tree protection measures as identified by arborist (E146)</li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place and any tree protection measure implemented</li> <li>Pre-Clearing checklist to be completed by CGU Environmental Advisor to check controls are in place</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li></ul></li></ul></li></ul> | 6 (minor)                            |
|       |                              | Injury / encounter with fauna                  | 9 (moderate)                      | <ul> <li>Direct:</li> <li>Pre-clearing surveys (E43) to be undertaken prior to the removal of any vegetation.</li> <li>Any habitat trees would be identified in accordance with the Approved Clearing and Grubbing Report and Permit to Clear Land and Vegetation</li> <li>If fauna is encountered and/or injured, Fauna Handling Procedure will be implemented</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B2 Flora and Fauna Management Procedure</li> </ul>   | 6 (minor)                            |
|       |                              | Spread of weed species                         | 8 (minor)                         | <ul> <li>Direct:</li> <li>Hold point for the Clearing and Grubbing Plan must be released prior to any clearing activities taking place. The Clearing and Grubbing Plan must include:</li> </ul>   | 6 (minor)                            |

| vel<br>ing<br>ion | Management Documents / Training Required  |
|-------------------|---|
|                   |   |
| or)               | Appendix B2 Flora and Fauna Management<br>Procedure:<br>• Appendix A Clearing and Grubbing<br>Procedure<br>Clearing and Grubbing Plan:<br>• Approved Tree Report under E146<br>Permit to Clear Land and Vegetation:<br>• Pre-clearing checklist<br>• Post clearing checklist  |
| or)               | <ul> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:</li> <li>Appendix A Clearing and Grubbing<br/>Procedure</li> <li>Appendix B Fauna Handling Procedure</li> <li>Clearing and Grubbing Plan:</li> <li>Pre-clearing Survey under E43</li> <li>Permit to Clear Land and Vegetation:</li> <li>Pre-clearing checklist</li> <li>Post clearing checklist</li> </ul> |
| or)               | <ul> <li>Appendix B2 Flora and Fauna Management<br/>Procedure:</li> <li>Appendix A Clearing and Grubbing<br/>Procedure</li> </ul>   |
|                   |   |

| Issue                  | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk leve<br>following<br>mitigatio |
|------------------------|--|---|-----------------------------------|---|-------------------------------------|
|                        |  |   |                                   | <ul> <li>Location of habitat trees or threatened flora (Pre-Clearing Survey E42)</li> <li>No-Go Zones (Safety, Heritage or Ecological)</li> <li>Sensitive Areas</li> <li>Noise Catchment Areas</li> <li>Trees approved to be removed, pruned/trimmed and retained (Approved Tree Report under E146)</li> <li>Clearance boundary</li> <li>Details on stages of work</li> <li>Working hours</li> <li>Location of weed (if applicable E42)</li> <li>Permit to Clear Land and Vegetation must be in place prior to any clearing activities taking place and weeds identified within Permit</li> <li>Weeds to be identified on site prior to clearing activities taking place</li> <li>Work crew involved with clearing activities to read and sign onto Permit to Clear Land or Vegetation</li> <li>Pre and Post Clearing checklist to be completed by CGU Environmental Advisor to identify that weed were managed in accordance with Permit</li> <li>Disposal of weeds it to occur in accordance with Waste CEMP Sub-plan (MMW6)</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B2 Flora and Fauna Management Procedure</li> <li>Implement management measures outlined in the Appendix B9 Waste CEMP Sub-plan</li> </ul> |                                     |
| Noise and<br>Vibration | <ul> <li>Demolition of existing structures including:         <ul> <li>Removal of garden beds, parking bays</li> <li>Disconnection of services to buildings at MOC3</li> <li>Demolition of existing buildings at MOC3</li> </ul> </li> <li>Vegetation clearing:         <ul> <li>Majority within standard construction hours</li> <li>Some street trees may require removal OOHW due to ROL</li> </ul> </li> <li>Installation of noise wall and boundary fencing</li> <li>Property adjustments within C3:         <ul> <li>Connection of potable water, power and sewer to facilities</li> </ul> </li> </ul> | <ul> <li>Noise impacts to sensitive receivers, including from high impact activities within C3 from the use of:</li> <li>Rock hammer to facilitate the removal of garden beds and parking bays</li> <li>Use of Rock hammer and similar to demolish buildings at MOC3</li> <li>Grinders and rattle guns to assemble plant and equipment</li> <li>Chainsaws and mulchers used during vegetation clearing</li> </ul> | 16 (significant)                  | <ul> <li>Direct:</li> <li>Impact of works to be assessed prior to works commencing the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities.</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan including: <ul> <li>Respite periods for high impact noise activities</li> <li>Progressively erecting noise walls along West Botany Street</li> <li>Use of temporary screening</li> <li>Monitoring will be carried out in accordance with the CNVIA</li> </ul> </li> <li>Programming of works to minimise the duration of noisy works</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of noise sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> </ul>  | 9 (moderat                          |

| evel<br>ving<br>ation | Management Documents / Training Required  |  |  |  |  |  |  |  |
|-----------------------|---|--|--|--|--|--|--|--|
|                       | Appendix C Weed Management Procedure  |  |  |  |  |  |  |  |
|                       | Clearing and Grubbing Plan:   |  |  |  |  |  |  |  |
|                       | Approved Tree Report under E146   |  |  |  |  |  |  |  |
|                       | Permit to Clear Land and Vegetation:  |  |  |  |  |  |  |  |
|                       | Pre-clearing checklist  |  |  |  |  |  |  |  |
|                       | Post clearing checklist   |  |  |  |  |  |  |  |
|                       | Appendix B9 Waste CEMP Sub-plan:  |  |  |  |  |  |  |  |
|                       | <ul> <li>Section 6 Environmental Control<br/>Measures</li> </ul>  |  |  |  |  |  |  |  |
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|                       |   |  |  |  |  |  |  |  |
|                       | Appendix B3 Noise and Vibration Preliminary CEMP Sub-plan:  |  |  |  |  |  |  |  |
|                       | <ul> <li>Section 7 Construction noise and<br/>vibration assessment</li> </ul>   |  |  |  |  |  |  |  |
|                       | <ul> <li>Section 8 Environmental Control<br/>Measures</li> </ul>  |  |  |  |  |  |  |  |
|                       | <ul> <li>Section 9 Compliance management<br/>(including training)</li> </ul>  |  |  |  |  |  |  |  |
| orato)                | CNVIA for preliminary construction including<br>commencement activities (Appendix F to the<br>Noise and Vibration Preliminary CEMP Sub-plan): |  |  |  |  |  |  |  |
| erate)                | <ul> <li>Section 5.3 Noise mitigation and<br/>management measures</li> </ul>  |  |  |  |  |  |  |  |
|                       | <ul> <li>Appendix C Construction Timetable<br/>activities management</li> </ul>   |  |  |  |  |  |  |  |
|                       | CEMP preliminary construction including<br>commencement activities:   |  |  |  |  |  |  |  |
|                       | <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> </ul>  |  |  |  |  |  |  |  |
|                       | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul>                    |  |  |  |  |  |  |  |

| Issue | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk level<br>following<br>mitigation |
|-------|--|---|-----------------------------------|---|---------------------------------------|
|       | <ul> <li>Removal of redundant<br/>services for safety<br/>purposes</li> <li>Relocation of overhead power<br/>lines on West Botany Street</li> <li>Installation of office and<br/>amenities</li> <li>Site leveling including haul<br/>roads, piling pads and laydown<br/>areas which involves:         <ul> <li>Importing clean material</li> <li>Spreading and<br/>compacting material on<br/>top of existing ground<br/>cover</li> <li>Stabilisation</li> </ul> </li> <li>Delivery and assembly of plant<br/>and equipment (including<br/>OOH)</li> </ul> | <ul> <li>Vibration impacts (human<br/>annoyance, property damage)<br/>to sensitive receivers from use<br/>of vibratory equipment,<br/>including the use of:</li> <li>Vibratory roller to<br/>compact clean material<br/>during site leveling</li> <li>Rock hammer to facilitate<br/>the removal of garden<br/>beds and parking bays</li> <li>Use of Rock hammer and<br/>similar to demolish<br/>buildings at MOC3</li> <li>Use of compactor or<br/>Wacker packer</li> </ul> | 16 (significant)                  | <ul> <li>Including list of assessed equipment and mitigation measures required to undertake high impact works in Work Pack's</li> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities.</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan and CNVIA including:         <ul> <li>Undertaking Condition Surveys prior to activities works (as per CNVIA)</li> <li>Respite periods high impact activities</li> <li>Substituting equipment where possible</li> <li>Monitoring will be carried out in accordance with the CNVIA</li> </ul> </li> <li>Programming of works to minimise the duration of works</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of vibration sensitive receivers and mitigation measures that must be implemented</li> <li>Community liaison and notification Indirect:         <ul> <li>Implementation of management measures outlined in the Appendix B3 Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Communication Strategy Including list of assessed equipment and mitigation measures required to undertake works which are at risk of generating vibration in Work Pack's</li> </ul> </li> </ul> | 9 (moderate                           |
|       |  | Noise impacts from out of hour<br>deliveries and works (e.g.<br>relocation of overhead<br>powerlines at MOC3)   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Where possible, all works will be undertaken within standard construction hours</li> <li>All OOH deliveries are to be unloaded during standard construction hours</li> <li>OOHW Approval must be obtained prior to works taking place and signed onto at pre-start</li> <li>Impact of works to be assessed prior to works commencing through the Construction Noise and Vibration Impact Statement (CNVIA) for preliminary construction including commencement activities. Works to be carried out in accordance with the CNVIA</li> <li>Mitigation measures implemented as per the Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify the location/s of sensitive receivers and mitigation measures that must be implemented</li> </ul>   | 9 (moderate                           |

| ing<br>ion | Management Documents / Training Required  |
|------------|---|
|            | Community Communication Strategy  |
|            | Appendix B3 Noise and Vibration Preliminary CEMP Sub-plan:  |
|            | <ul> <li>Section 7 Construction noise and<br/>vibration assessment</li> </ul>   |
|            | <ul> <li>Section 8 Environmental Control<br/>Measures</li> </ul>  |
|            | <ul> <li>Section 9 Compliance management<br/>(including training)</li> </ul>  |
| rate)      | CNVIA for preliminary construction including<br>commencement activities (Appendix F to the<br>Noise and Vibration Preliminary CEMP Sub-plan): |
|            | <ul> <li>Section 6.1 Minimum working distances<br/>for vibration intensive plant</li> </ul>   |
|            | Section 6.2 Vibration assessment  |
|            | Section 6.3 Vibration mitigation measures   |
|            | <ul> <li>Appendix C Construction Timetable<br/>activities management</li> </ul>   |
|            | CEMP preliminary construction including<br>commencement activities:   |
|            | <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> </ul>  |
|            | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul>                    |
|            | Community Communication Strategy  |
|            | Appendix B3 Noise and Vibration Preliminary CEMP Sub-plan:  |
|            | <ul> <li>Section 7 Construction noise and<br/>vibration assessment</li> </ul>   |
|            | <ul> <li>Section 8 Environmental Control<br/>Measures</li> </ul>  |
| rate)      | <ul> <li>Section 9 Compliance management<br/>(including training)</li> </ul>  |
|            | CNVIA for preliminary construction including<br>commencement activities (Appendix F to the<br>Noise and Vibration Preliminary CEMP Sub-plan): |
|            | <ul> <li>Section 5.3 Noise mitigation and<br/>management</li> </ul>   |
|            | Appendix C Construction Timetable     activities management   |

| Issue                     | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training Required   |
|---------------------------|--|---|-----------------------------------|--|---------------------------------------|--|
|                           |  | Inadequate notification to<br>sensitive receivers impacted by<br>activities associated with C3<br>construction ancillary facility | 12 (moderate)                     | <ul> <li>Community liaison and notification<br/>Indirect: <ul> <li>Implementation of management measures outlined in the Appendix B3<br/>Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>The Work Pack/s must include assessed plant, equipment and work area<br/>along with any mitigation measures which need to be implemented.</li> </ul> </li> <li>Direct: <ul> <li>Impact of works to be assessed prior to works commencing through the<br/>Construction Noise and Vibration Impact Statement (CNVIA) for preliminary<br/>construction including commencement activities</li> <li>Notification to be carried out in accordance with mitigation measures<br/>outlined in CNVIA</li> <li>All on site personnel would undergo a site induction and ongoing toolbox<br/>talks that will identify the location/s of vibration sensitive receivers and<br/>mitigation measures that must be implemented</li> <li>Indirect: <ul> <li>Implementation of management measures outlined in the Appendix B3<br/>Noise and Vibration Preliminary Sub-plan and CNVIA</li> <li>Notification in accordance with the Community Communication Strategy</li> <li>The Work Pack/s to be reviewed by Community Relations Advisor</li> </ul> </li> </ul></li></ul> | 9 (moderate)                          | <ul> <li>Out of Hours Work and Construction Fatigue<br/>Protocol (Appendix C to the Noise and Vibration<br/>Preliminary CEMP Sub-plan)</li> <li>Community Communication Strategy</li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul> </li> <li>Community Communication Strategy</li> <li>Appendix B3 Noise and Vibration Preliminary<br/>CEMP Sub-plan: <ul> <li>Section 4.1 Sensitive receivers</li> <li>Section 5 Noise and vibration criteria for<br/>NSW</li> <li>Section 7 Construction noise and<br/>vibration assessment</li> <li>Section 8 Environmental Control<br/>Measures</li> <li>Section 9 Compliance management<br/>(including training)</li> </ul> </li> <li>CNVIA for preliminary construction including<br/>commencement activities (Appendix F to the<br/>Noise and Vibration Preliminary CEMP Sub-plan): <ul> <li>Section 3 nearest sensitive receivers</li> <li>Section 4 Construction noise and<br/>vibration objectives</li> <li>Section 3 nearest sensitive receivers</li> <li>Section 4 Construction noise and<br/>vibration objectives</li> <li>Section 5.3.2 Noise control and<br/>management measures</li> </ul> </li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.4 Resources, responsibility and<br/>authority</li> <li>Section 3.6 Competence, training and</li> </ul> </li> </ul> |
| Soil and<br>Surface Water | <ul> <li>Vegetation removal: soil<br/>caught in root systems of trees</li> <li>Construction of footings for<br/>noise walls and chain link<br/>fencing</li> <li>Site leveling for haul roads,<br/>piling pads and hardstand<br/>areas which involves:</li> <li>Importing clean<br/>material</li> </ul> | Impact to surface waters from inappropriate discharge   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>No water to be discharged from C3 during preliminary construction</li> <li>Divert surface water around disturbed areas (clean water diversion)</li> <li>Existing stormwater drains to be isolated</li> <li>No activities to occur within wetland during Stage 1 preliminary construction<br/>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and<br/>Surface Water Procedure</li> </ul>  | 6 (minor)                             | <ul> <li>awareness</li> <li>Section 3.7 Communication</li> <li>Appendix B4 Soil and Surface Water Procedure: <ul> <li>Water Reuse and Discharge Procedure</li> <li>Erosion and Sediment Control<br/>Management Procedure</li> </ul> </li> <li>Project EPL</li> <li>CEMP preliminary construction including<br/>commencement activities: <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul> </li> </ul>   |

| Issue | Construction activity/aspect  | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk leve<br>following<br>mitigation |
|-------|---|---|-----------------------------------|---|--------------------------------------|
|       | <ul> <li>Spreading and<br/>compaction to design<br/>levels (on top of<br/>existing pavement)</li> <li>Stabilisation</li> <li>Property adjustments:         <ul> <li>Disconnection of<br/>existing services to</li> </ul> </li> </ul>  |   |                                   | Implementing the TfNSW incident procedure in the event of a non-<br>compliance  |                                      |
|       | <ul> <li>buildings <ul> <li>Connection of potable water, power and sewer to facilities</li> <li>Removal of redundant services for safety purposes</li> </ul> </li> <li>Installation of erosion and sediment controls</li> <li>Construction of pedestrian footpath from West Botany Street through to Brighton-Le-Sands Public School</li> </ul> | Sediment laden water leaving<br>C3 boundary during rainfall<br>event (including from<br>hardstands, stockpiles, site<br>leveling activities)          | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Erosion and Sediment Control Plans (ESCP) would be prepared and implemented</li> <li>Stockpiles to be managed in accordance with Stockpile Management Procedure</li> <li>Regular inspection and maintenance of ESCP controls (as per Erosion and Sediment Control Procedure)</li> <li>Targeted training for key on site personnel</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail erosion and sediment control management measures</li> <li>An experienced soil conservation specialist (CPESC) would be engaged to provide advice regarding erosion and sediment control</li> <li>Hardstand areas and surrounding public roads would be cleaned as required using methods such as brooms, bobcat attachments or street sweepers</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>ESCP to be included in Work Packs</li> </ul>  | 6 (minor)                            |
|       |   | Contamination of soil or water<br>due to spills of hydrocarbon,<br>oils and chemicals related to:<br>• Mechanical failures<br>• Refuelling activities | 8 (minor)                         | <ul> <li>Direct:</li> <li>Spill kits would be readily available within the C3 (including MOC3) construction ancillary facility</li> <li>The use of any hazardous substances that could result in a spill would be undertaken away from drainage or stormwater lines and, wherever possible, within defined bunds</li> <li>Any refuelling on site would follow a refuelling procedure which includes details on where this activity is permitted, management measures and emergency equipment requirements.</li> <li>All spills or leakages would be immediately contained and cleaned up</li> <li>Spill containment kits would be placed at locations where chemicals are stored or used and where refuelling is permitted</li> <li>Inspection regime for chemical storage facilities</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Storage and handling chemicals would be done in accordance with Safe Work Method Statement and SDS</li> <li>Implementing the TfNSW incident procedure in the event of a non-compliance</li> </ul> | 4 (minor)                            |

| vel<br>ing<br>ion | Management Documents / Training Required  |
|-------------------|---|
|                   | <ul> <li>Section 3.2.3 Regulatory requirements<br/>and compliance</li> </ul>  |
|                   | <ul> <li>Section 3.8 Emergency and Incident<br/>Planning</li> </ul>   |
|                   | Appendix A7 TfNSW Incident Procedure  |
|                   | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment Plan<br/>for C3</li> </ul>  |
|                   | Appendix B4 Soil and Surface Water Procedure:   |
|                   | Erosion and Sediment Control Procedure  |
|                   | Stockpile Management Procedure  |
|                   | CEMP preliminary construction including<br>commencement activities:   |
|                   | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul>  |
| or)               | <ul> <li>Section 3.4 Resources, responsibility and<br/>authority</li> </ul>   |
|                   | <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> </ul>  |
|                   | <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul>  |
|                   | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment Plan<br/>for C3</li> </ul>  |
| or)               | <ul> <li>Appendix B4 Soil and Surface Water Procedure:</li> <li>Spill Management Procedure</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> <li>Appendix A4 Site Establishment Management Plan: Site Environment Plan for C3</li> <li>Appendix A7 TfNSW Incident Procedure</li> </ul> |

| Issue       | Construction activity/aspect   | Potential impact   | Risk level prior<br>to mitigation | Indicative Mitigation Measures  | Risk leve<br>followin<br>mitigatio |
|-------------|--|--|-----------------------------------|---|------------------------------------|
|             |  | Washout water from concrete<br>agitator travelling beyond C3<br>boundary                 | 8 (minor)                         | <ul> <li>Direct:</li> <li>Washout areas will be adequately sized, regularly maintained, and located in a designated area</li> <li>Concrete agitator truck drivers will be directed to the designated washout area</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> </ul>   | 4 (minor                           |
|             |  | Tracking of material onto West<br>Botany Street  | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Wheel wash to be installed at C3 construction ancillary facility</li> <li>Vehicles exiting site will be directed through wheel wash, once installed</li> <li>Street sweeper to be used to maintain internal haul roads and West Botany Street</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Vehicle Management Plan to direct exiting vehicles through wheel wash</li> </ul>  | 6 (minor                           |
|             |  | Sediment escaping from<br>pedestrian footpath works into<br>Kings Wetland                | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Erosion and Sediment Control Plans (ESCP) would be prepared and implemented</li> <li>Regular inspection and maintenance of ESCP controls (as per Erosion and Sediment Control Procedure)</li> <li>An experienced soil conservation specialist (CPESC) would be engaged to provide advice regarding erosion and sediment control</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will detail erosion and sediment control management measures</li> <li>Indirect:</li> <li>Implement management measures outlined in the Appendix B4 Soil and Surface Water Procedure</li> <li>Control measures to be included in Work Pack/s</li> </ul> | 6 (minor)                          |
| Groundwater | <ul> <li>Soil disturbance activities<br/>including:         <ul> <li>Vegetation removal soil<br/>caught in root systems of<br/>trees</li> <li>Property adjustments<br/>including service<br/>connections/disconnection<br/>and removal of redundant<br/>services for safety<br/>purposes</li> <li>Footings for noise walls<br/>and chain link fencing</li> </ul> </li> </ul> | Impact/s to groundwater<br>resources (including quality or<br>drawdown) from disturbance | 8 (minor)                         | <ul> <li>Direct:</li> <li>No bulk excavation would be undertaken during preliminary construction or commencement activities</li> <li>Completion of Site Contamination Report/s (including investigation of groundwater) prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan Indirect:</li> <li>Implement management measures outlined in the Appendix B8 Contamination CEMP Sub-plan and Geotechnical Interpretative Report</li> </ul>   | 4 (minor                           |

| vel<br>ing<br>ion | Management Documents / Training Required  |  |  |  |  |  |  |
|-------------------|---|--|--|--|--|--|--|
|                   | Appendix B4 Soil and Surface Water Procedure:   |  |  |  |  |  |  |
|                   | Water Reuse and Discharge Procedure   |  |  |  |  |  |  |
|                   | CEMP preliminary construction including<br>commencement activities:   |  |  |  |  |  |  |
| or)               | <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul>  |  |  |  |  |  |  |
|                   | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment Plan<br/>for C3</li> </ul>  |  |  |  |  |  |  |
|                   | Appendix B4 Soil and Surface Water Procedure:   |  |  |  |  |  |  |
| or)               | Erosion and Sediment Control Procedure  |  |  |  |  |  |  |
|                   | CEMP preliminary construction including<br>commencement activities:   |  |  |  |  |  |  |
|                   | <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul>  |  |  |  |  |  |  |
|                   | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment Plan<br/>for C3</li> </ul>  |  |  |  |  |  |  |
|                   | Appendix B4 Soil and Surface Water Procedure:   |  |  |  |  |  |  |
|                   | • Erosion and Sediment Control Procedure  |  |  |  |  |  |  |
|                   | Stockpile Management Procedure  |  |  |  |  |  |  |
|                   | CEMP preliminary construction including<br>commencement activities:   |  |  |  |  |  |  |
|                   | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul>  |  |  |  |  |  |  |
| or)               | <ul> <li>Section 3.4 Resources, responsibility and<br/>authority</li> </ul>   |  |  |  |  |  |  |
|                   | <ul> <li>Section 3.6 Competence, training and<br/>awareness</li> </ul>  |  |  |  |  |  |  |
|                   | <ul> <li>Section 3.9 Monitoring, inspections and<br/>auditing</li> </ul>  |  |  |  |  |  |  |
|                   | <ul> <li>Appendix A4 Site Establishment<br/>Management Plan: Site Environment Plan<br/>for C3</li> </ul>  |  |  |  |  |  |  |
| or)               | <ul> <li>Appendix B4 Soil and Surface Water Procedure:</li> <li>Water Reuse and Discharge Procedure</li> <li>Appendix B8 Contamination CEMP Sub-plan</li> <li>Geotechnical Interpretative Report</li> </ul> |  |  |  |  |  |  |
|                   |   |  |  |  |  |  |  |

| Issue       | Construction activity/aspect  | Potential impact   | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk lev<br>followin<br>mitigatio |
|-------------|---|--|-----------------------------------|--|-----------------------------------|
| Heritage    | <ul> <li>Property adjustments<br/>including: <ul> <li>Connection of potable<br/>water, power and sewer to<br/>facilities</li> <li>Removal of redundant<br/>services for safety<br/>purposes</li> </ul> </li> <li>Vegetation removal</li> <li>Construction of footings for<br/>noise walls and chain link<br/>fencing</li> <li>Construction of the pedestrian<br/>footpath</li> </ul>                    | Unexpected heritage finds<br>(indigenous and/or non-<br>indigenous) including<br>unexpected find of human<br>remains | 8 (minor)<br>8 (minor)            | <ul> <li>Direct:</li> <li>Implement Unexpected Heritage Finds and Human Remains Procedure. If an unidentified heritage artefact is suspected: <ul> <li>All works in the immediate vicinity of the find will cease immediately to avoid any further impacts.</li> <li>A qualified archaeologist will be contacted to determine the significance of the object(s).</li> <li>In the event that new Aboriginal site(s) or item(s) are discovered during the proposed investigations, an AHIMS site card will be completed and submitted to the Office of Environment and Heritage (OEH) in accordance with section 89A of the National Parks and Wildlife Act 1974 (NSW). The site card will be lodged within 21 days and a copy provided to Indigenous stakeholders who wish to have a copy.</li> <li>Management recommendations will be developed for newly identified site(s) or items(s) in consultation with registered Indigenous stakeholders, using the precautionary principles of avoidance, mitigation, salvage. Management measures will be determined based on the type of evidence identified, the significance of the site or item identified (scientific and cultural) as well as the nature of potential impacts.</li> </ul> </li> <li>Indirect:</li> <li>All on site personnel would be provided with site training in regard to Aboriginal cultural heritage site awareness, key mitigation and management requirements and their responsibilities pertaining to the Aboriginal Heritage provisions of the NPW Act 1974 (NSW) prior to construction commencing. Training will include requirements of the Manage Heritage Procedure and the Unexpected Heritage Finds Procedure and Human Remains Procedure.</li> <li>Implement management measures outlined in the Appendix B6 Heritage Management Plan</li> </ul> | 2 (negligib                       |
| Air Quality | <ul> <li>Importing clean material for<br/>site leveling activities and<br/>associated activities<br/>(spreading, compacting<br/>stockpiling etc.)</li> <li>Rock hammering of garden<br/>beds and parking bays</li> <li>Movement of vehicles and<br/>equipment on surface</li> <li>Stockpiling of material</li> <li>Demolishing existing<br/>structures (MOC3)</li> <li>Use of street sweeper</li> </ul> | Emissions from the use of plant<br>and equipment   | 12 (moderate)                     | <ul> <li>Boundary fencing will be established during preliminary construction works, delineating work area from Kings Wetland</li> <li>Direct: <ul> <li>Construction plant and equipment will be operated, inspected and maintained to maximise efficiency and comply with relevant emission standards</li> <li>Engine idling will be minimised when plant is stationary, and plant will be switched off when not in use to reduce emissions</li> <li>The use of mains electricity will be favoured over diesel or petrol- powered generators where practicable to reduce site emissions</li> </ul> </li> <li>Indirect: <ul> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Mitigation measures to be included in SWMS for the operation of plant and equipment where applicable</li> </ul> </li> </ul>   | 6 (minor                          |

| nible) Appendix B6 Heritage Management Plan:<br>• Unexpected Heritage Finds and Human<br>Remains Procedure   |
|--|
|  |
| or) Appendix B6 Heritage Management Plan   |
| Appendix B7 Air Quality and Odour CEMP Sub-<br>plan:<br>• Section 6 Environmental control<br>measures (Table 9)<br>• Appendix A Air Quality Monitoring<br>Program<br>CEMP preliminary construction including<br>commencement activities:<br>• Section 3.2.1 Environmental Risk<br>Assessment Workshop including the use<br>of Work Packs (Table 6) |

| Issue                                 | Construction activity/aspect  | Potential impact   | Risk level prior<br>to mitigation   | Indicative Mitigation Measures  | Risk leve<br>following<br>mitigatio |
|---------------------------------------|---|--|---|---|-------------------------------------|
| Application of pesticides to<br>weeds | Application of pesticides to<br>weeds   | Sensitive receivers impacted by<br>dust generated from rock<br>hammering on surface  | 15 (significant)  | <ul> <li>Direct:</li> <li>Effective dust suppression would be applied during works including but not limited to the use of water carts, sprinklers, dust screens, fogging machines etc.</li> <li>Preliminary construction including commencement activities with the potential to generate dust would be managed (modified, reduced or ceased) during unfavourable weather conditions to reduce the potential for dust generation</li> <li>Forecast of unfavourable weather conditions will be communicated to construction team</li> <li>Inspections will be undertaken on activities with potential to generate dust to monitor the effectiveness of the control measures</li> <li>All on site personnel would undergo a site induction and ongoing toolbox talks that will identify correct behaviours and mitigation measures that must be implemented</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> </ul> | 12<br>(moderate                     |
|                                       |   |  |   | <ul> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Ensure that control measures are communicated and documented into Work Packs</li> </ul>   |                                     |
|                                       | Tracking of material on West<br>Botany Street from vehicle<br>movements exiting C3<br>construction ancillary facility | 12 (moderate)  | <ul> <li>Direct:</li> <li>Hardstands and haul roads within C3 construction ancillary facility will be maintained to minimise and reduce dust generation from exposed surface areas and vehicle movements</li> <li>All vehicles exiting the C3 construction ancillary facility will utilise the wheel wash prior to exiting site (once available)</li> <li>Water carts and street sweepers will service haul roads</li> <li>Inspections will be undertaken monitor the effectiveness of the control measures</li> <li>Vehicle Management Plan to be enforced by Supervisor and monitored by traffic control or delegated person</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Vehicle Management Plan to direct exiting vehicles through wheel wash</li> </ul> | 9 (moderat  |                                     |
|                                       |   | Sensitive receivers impacted by<br>dust generation from site<br>leveling activities and<br>associated activities (spreading,<br>compacting stockpiling etc.) | 15 (significant)  | <ul> <li>Direct:</li> <li>Storage of materials that have the potential to result in dust generation would be minimised within Project sites at all times</li> <li>Long term inactive stockpiles (e.g. longer than 10 days) will be stabilised using soil polymer binders, spray seed, geofabric etc.</li> <li>Controls outlined in Stockpile Management Procedure to be implemented</li> <li>Water suppression will be applied during activities to minimise the generation of dust</li> <li>Inspections will be undertaken monitor the effectiveness of the control measures</li> </ul>  | 12<br>(moderate                     |

| evel<br>ing<br>tion | Management Documents / Training Required  |
|---------------------|---|
| ate)                | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the use of Work Packs (Table 6)</li> </ul> |
| rate)               | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> </ul>   |
| ate)                | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>Appendix B4 Soil and Surface Water Management Procedure:</li> <li>Stockpile Management Procedure</li> </ul>   |

| <ul> <li>Preliminary construction including commencement activities potential to generate dust would be managed (modified, reduring unfavourable weather conditions to reduce the potential on generation</li> <li>Forecast of unfavourable weather conditions will be commented activities and the potential of the potential of</li></ul> | educed or ceased)       |
|--|-------------------------|
| Forecast of unfavourable weather conditions will be comm   |                         |
| construction team  | nunicated to            |
| Indirect:  |                         |
| Implementation of management measures outlined in the A Quality and Odour CEMP Sub-plan  | Appendix B7 Air         |
| Implementation of management measures outlined in the S     Management Procedure located in Appendix B4 Soil and S     Management Procedure  |                         |
| Monitoring and surveillance as per the Air Quality Monitoria   | ring program            |
| Ensure that control measures are communicated and docu<br>Packs  | cumented into Work      |
| Direct:  |                         |
| Construction plant and equipment will be operated, inspec<br>maintained to maximise efficiency and comply with relevan<br>standards  |                         |
| Supervisor to assess competency of operator of street sweet  | veeper                  |
| Pre-start to be conducted on street sweeper daily and any  | y faults rectified      |
| Dust generation from improper<br>use of street sweeper<br>use of street sweeper  | water will be 8 (mino   |
| All on site personnel would undergo a site induction and or<br>talks that will identify correct behaviours and mitigation me<br>be implemented   |                         |
| Indirect:  |                         |
| Implementation of management measures outlined in the A     Quality and Odour CEMP Sub-plan  | Appendix B7 Air         |
| Monitoring and surveillance as per the Air Quality Monitoria   | ring program            |
| Direct:  |                         |
| Effective dust suppression to be applied during demolition structures to minimise dust generation  | n of existing           |
| HAZMAT surveys and removal of asbestos prior to demoli   | lition activities       |
| Preliminary construction including commencement activities     potential to generate dust would be managed (modified, re     during unfavourable weather conditions to reduce the pote     generation  | educed or ceased)       |
| Sensitive receivers impacted by<br>dust generation form demolition<br>activities 15 (significant) • Forecast of unfavourable weather conditions will be comm<br>construction team  | nunicated to 12 (modera |
| All on site personnel would undergo a site induction and or<br>talks that will identify correct behaviours and mitigation me<br>be implemented   |                         |
| Inspections will be undertaken monitor the effectiveness of measures   | of the control          |
| Indirect:  |                         |
| Implementation of management measures outlined in the A Quality and Odour CEMP Sub-plan  | Appendix B7 Air         |

| Risk level<br>following<br>mitigation | Management Documents / Training Required   |
|---------------------------------------|--|
|                                       | CEMP preliminary construction including<br>commencement activities:  |
|                                       | <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the use<br/>of Work Packs (Table 6)</li> </ul>   |
|                                       |  |
|                                       |  |
| 8 (minor)                             | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.4 Resources, responsibilities and authority</li> </ul> |
| 12<br>(moderate)                      | <ul> <li>Appendix B7 Air Quality and Odour CEMP Subplan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> </ul>  |

| Issue         | Construction activity/aspect   | Potential impact   | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk leve<br>following<br>mitigatior |
|---------------|--|--|-----------------------------------|--|--------------------------------------|
|               |  | Application of pesticides result<br>in chemical travelling beyond<br>C3 construction ancillary facility<br>boundary. | 9 (moderate)                      | <ul> <li>Monitoring and surveillance as per the Air Quality Monitoring program</li> <li>Direct:</li> <li>The application of pesticides will be modified, reduced or controlled during high or unfavourable wind conditions where wind can carry pesticides beyond the C3 project boundary</li> <li>An Environmental Work Method Statement will be developed on the application of pesticides and activity carried out in accordance with this EVMS</li> <li>Indirect:</li> <li>Implementation of management measures outlined in the Appendix B7 Air Quality and Odour CEMP Sub-plan</li> <li>Implementation of management measures outlined in the Weed Management Procedure found in Appendix B2 Flora and Fauna Management Procedure</li> <li>Implementation of management measures outlined in the EWMS</li> </ul>   | 6 (minor)                            |
| Contamination | <ul> <li>Property adjustments<br/>including:         <ul> <li>Connection of potable<br/>water, power and<br/>sewer to facilities</li> <li>Removal of redundant<br/>services for safety<br/>purposes</li> </ul> </li> <li>Vegetation removal including<br/>root systems</li> <li>Construction of footings for<br/>noise walls and chain link<br/>fencing</li> </ul> | Disturbance of contaminated material   | 12 (moderate)                     | <ul> <li>Direct:</li> <li>No bulk excavation will be undertaken at C3 construction ancillary facility during preliminary construction activities</li> <li>Completion of Site Contamination Report/s prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Implementation of the TfNSW Unexpected Contaminated Lands and Asbestos Finds Procedure (Appendix A of the Appendix B8 Contamination CEMP Sub-plan)</li> <li>Property adjustment will avoid soil disturbance by: <ul> <li>Running services above existing ground</li> <li>Placing services within clean fill material (placed during site leveling)</li> <li>No landfill material to be intercepted with the installation of services</li> </ul> </li> <li>Disturbance of soil below topsoil will be avoided wherever possible, with site leveling activities building up from existing ground level</li> </ul> | 9 (moderate                          |

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| Appendix B7 Air Quality and Odour CEMP Sub<br>plan:<br>Section 6 Environmental control<br>measures (Table 9)<br>Section 7 Compliance management<br>Appendix A Air Quality Monitoring<br>Program<br>Or)<br>Appendix B2 Flora and Fauna Management<br>Procedure: |      |
|--|------|
| <ul> <li>plan:</li> <li>Section 6 Environmental control measures (Table 9)</li> <li>Section 7 Compliance management</li> <li>Appendix A Air Quality Monitoring Program</li> <li>Appendix B2 Flora and Fauna Management</li> </ul>                              | 1-   |
| <ul> <li>Procedure:</li> <li>Weed Management Procedure</li> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop including the u of Work Packs (Table 6)</li> </ul>              | se   |
| <ul> <li>Appendix B8 Contamination CEMP Sub-plan:</li> <li>Section 4 Existing environment</li> <li>Section 6 Environmental control</li> </ul>  |      |
| measures   |      |
| Section 7 Compliance Management  |      |
| <ul> <li>Appendix A TfNSW Unexpected<br/>Contaminated Land and Asbestos Find<br/>Procedure</li> </ul>  | ds   |
| rate) CEMP preliminary construction including commencement activities:   |      |
| <ul> <li>Section 3.2.1 Environmental Risk<br/>Assessment Workshop including the u<br/>of Work Packs (Table 6)</li> </ul>   | se   |
| <ul> <li>Appendix A4 Site Environmental<br/>Management Plan Appendix A Site<br/>Environment Plan for C3</li> </ul>   |      |
| Appendix B4 Soil and Surface Water Managem   | nent |

| Issue | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk leve<br>followin<br>mitigatio |
|-------|--|---|-----------------------------------|--|------------------------------------|
|       |  |   |                                   | Stockpiles to be managed in accordance with Stockpile Management<br>Procedure (Appendix B4 Soil and Surface Water Management Procedure)  |                                    |
|       |  |   |                                   | Indirect:  |                                    |
|       |  |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B8<br/>Contamination CEMP Sub-plan</li> </ul>  |                                    |
|       |  |   |                                   | Ensure that control measures are communicated and documented into Work Packs   |                                    |
|       |  |   |                                   | Direct:  |                                    |
|       |  |   |                                   | No bulk excavation will be undertaken during preliminary construction or<br>commencement activities  |                                    |
|       |  |   |                                   | <ul> <li>Completion of Site Contamination Report/s prior to ground disturbance<br/>activities (E112)</li> </ul>  |                                    |
|       |  |   |                                   | <ul> <li>Implementation of specific management measures identified in Site<br/>Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> </ul>  |                                    |
|       |  | Exposure of personnel to<br>unidentified contaminated<br>materials during works         | 12 (moderate)                     | <ul> <li>Induct construction personnel in the identification and management of<br/>previously unidentified contaminated sites.</li> </ul>  | 6 (minor                           |
|       |  | materials during works  |                                   | The discovery of previously unidentified contaminated material will be<br>managed in accordance with an Unexpected Contaminated Land Finds<br>Procedure. The procedure will include:                             |                                    |
|       |  |   |                                   | <ul> <li>Cease work in the vicinity</li> </ul>   |                                    |
|       |  |   |                                   | <ul> <li>Initial assessment by an appropriately qualified environmental<br/>consultant</li> </ul>  |                                    |
|       |  |   |                                   | <ul> <li>Further assessment and management of contamination, if<br/>confirmed, in accordance with Section 105 of the CLM Act</li> </ul>  |                                    |
|       |  |   |                                   | Direct:  |                                    |
|       | <ul> <li>Importing clean material (e.g. stabilised DGB, VEMN / tunnel</li> </ul> |   |                                   | Waste classification in accordance with EPA guidelines   |                                    |
|       | <ul> <li>Waste services collecting</li> </ul>                                    |   |                                   | <ul> <li>Suitably licensed waste contractors would be used for the collection and<br/>transport of all wastes for either offsite processing and/or disposal to an<br/>appropriately licensed facility</li> </ul> |                                    |
|       | <ul><li>skips and front-loading bins</li><li>Waste materials generated</li></ul> | Inappropriate disposal of waste<br>(including demolition,<br>vegetation and hazardous / | 15 (significant)                  | <ul> <li>Receipts for waste transfer and disposal would be checked to ensure all<br/>details are correct and retained for audit purposes</li> </ul>  | 9 (modera                          |
|       | from:  | special waste) including<br>disposal of waste at an                                     | 15 (Signineant)                   | Implementation of a waste tracking register  | 3 (modera                          |
|       | o Demolition   | unlicensed waste facility   |                                   | <ul> <li>All on site personnel would undergo a site induction and ongoing toolbox</li> </ul>   |                                    |
|       | <ul> <li>Packaging from<br/>deliveries</li> </ul>                                |   |                                   | talks that detail waste and resource management measures   |                                    |
| Waste | <ul> <li>Maintenance of plant<br/>and equipment</li> </ul>                       |   |                                   | <ul> <li>Implement management measures outlined in the Appendix B9 Waste<br/>CEMP Sub-plan</li> </ul>  |                                    |
|       | <ul> <li>Offices and amenities</li> </ul>  |   |                                   | Direct:  |                                    |
|       | <ul> <li>Vegetation clearing</li> </ul>  |   |                                   | <ul> <li>Imported clean material suitable for the purpose of site leveling as per</li> </ul>   |                                    |
|       | Material removed during:   |   |                                   | design requirements  |                                    |
|       | <ul> <li>Noise wall, chain link<br/>fencing footings</li> </ul>                  | Inappropriate material bought to site for leveling purposes                             | 15 (significant)                  | <ul> <li>Imported clean material may also be bought to site under a Resource<br/>Recovery Exemption</li> </ul>   | 9 (modera                          |
|       | <ul> <li>Property adjustments</li> </ul>   |   |                                   | Evidence of compliance to the Resource Recovery Order will be requested     and increations corried out on material  |                                    |
|       | • Soil from tree roots   |   |                                   | and inspections carried out on material  |                                    |
|       | Litter from workforce, visitors     and staff                                    | Litter, inappropriate use of co-<br>mingling and waste receptacles                      | 8 (minor)                         | Imported material its source will be tracked Direct:   | 2 (negligib                        |
|       |  |   |                                   |  |                                    |

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| vel<br>ing<br>ion | Management Documents / Training Required  |
|-------------------|---|
|                   | Stockpile Management Procedure  |
| or)               | <ul> <li>Appendix B8 Contamination CEMP Sub-plan:</li> <li>Section 4 Existing environment</li> <li>Section 6 Environmental control measures</li> <li>Section 7 Compliance Management</li> <li>Appendix A TfNSW Unexpected Contaminated Land and Asbestos Finds Procedure</li> </ul>   |
| rate)             | <ul> <li>Appendix B9 Waste CEMP Sub-plan:</li> <li>Section 4.4 Waste management<br/>Hierarchy</li> <li>Section 4.5 Classification of waste<br/>streams</li> <li>Section 4.6 Management of waste<br/>streams</li> <li>Section 4.7 Waste tracking</li> <li>Section 6 Environmental control<br/>measures</li> <li>Section 7 Compliance management</li> </ul> |
| rate)             | Appendix B8 Contamination CEMP Sub-plan:<br>• Section 7 Compliance Management   |
| ible)             | Appendix B9 Waste CEMP Sub-plan:  |

| Issue                                     | Construction activity/aspect   | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk lev<br>followin<br>mitigatio |
|---|--|---|-----------------------------------|--|-----------------------------------|
|   |  |   |                                   | <ul> <li>All recyclable solid wastes (paper/ cardboard/ plastic/ glass/ timber/ metals/<br/>fluorescent lighting/ printer cartridges/ICT equipment) would be segregated<br/>for recycling purposes and volumes reported. Wherever possible, packaging<br/>should be avoided or minimised to prevent waste products being<br/>unnecessarily brought to site.</li> <li>All staff and subcontractors would undergo a site induction and ongoing<br/>toolbox talks that will detail waste and resource management measures<br/>(including the waste management hierarchy) and energy consumption</li> <li>Indirect:</li> <li>Implement management measures outlined in the Sustainability<br/>Management Plan and Appendix B9 Waste CEMP Sub-plan</li> </ul>   |                                   |
| Landfill and<br>leachate                  | <ul> <li>Ground disturbance activities:</li> <li>Property adjustments including: <ul> <li>Connection of potable water, power and sewer to facilities</li> <li>Removal of redundant services for safety purposes</li> </ul> </li> <li>Vegetation removal: soil caught in root systems of trees</li> <li>Construction of footings for noise wall and chain link fencing</li> </ul> | Interception of landfill and leachate   | 12 (moderate)                     | <ul> <li>No bulk excavation will be undertaken during preliminary construction or commencement activities</li> <li>Completion of Site Contamination Report/s prior to ground disturbance activities (E112)</li> <li>Implementation of specific management measures identified in Site Contamination Report/s (E112) and Contamination CEMP Sub-plan</li> <li>Property adjustment will minimise ground disturbance by:         <ul> <li>Trenches will not run through landfill material during preliminary construction activities</li> <li>Running services along/above existing ground</li> <li>Placing services within clean fill material (placed during site leveling)</li> </ul> </li> <li>Induct construction personnel in the identification and management of previously unidentified contaminated sites</li> <li>If landfill and leachate is intercepted, it will be managed in accordance with an Unexpected Contaminated Land Finds Procedure. The procedure will include:             <ul> <li>Cease work in the vicinity</li> <li>Initial assessment by an appropriately qualified environmental consultant</li> </ul> </li> <li>Further assessment and management of contamination, if confirmed, in accordance with Section 105 of the CLM Act</li> <li>Indirect:         <ul> <li>Implement management measures outlined in the Appendix B8 Contamination CEMP Sub-plan</li> <li>Implementing the TfNSW incident procedure in the event of a non-compliance</li> </ul> </li> </ul> | 8 (Minor                          |
| General<br>including Site<br>Establishmen |  | Inadequate notification to<br>relevant stakeholders of<br>incident and/or non-<br>conformance | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Potential and actual non-compliances will be classified and reported in accordance with the TfNSW Environmental Incident Classification and Reporting Procedure</li> <li>A Pollution Incident Response Management Plan (PIRMP) will be prepared and implemented</li> <li>All works will be carried out in accordance with the CPB Contractors Construction management System (certified to conform to AS/NZS ISO</li> </ul>  | 9 (modera                         |

| isk level<br>bllowing<br>itigation | Management Documents / Training Required  |
|------------------------------------|---|
|                                    | <ul> <li>Section 4.4 Waste management<br/>Hierarchy</li> </ul>  |
|                                    | <ul> <li>Section 4.5 Classification of waste<br/>streams</li> </ul>   |
|                                    | <ul> <li>Section 4.6 Management of waste<br/>streams</li> </ul>   |
|                                    | Section 4.7 Waste tracking  |
|                                    | <ul> <li>Section 6 Environmental control<br/>measures</li> </ul>  |
|                                    | Section 7 Compliance management   |
|                                    | Sustainability Management Plan  |
| 3 (Minor)                          | <ul> <li>Appendix B8 Contamination CEMP Sub-plan:</li> <li>Section 4 Existing environment</li> <li>Section 6 Environmental control measures</li> <li>Section 7 Compliance Management</li> <li>Appendix A TfNSW Unexpected Contaminated Land and Asbestos Finds Procedure</li> </ul> |
| moderato                           | <ul> <li>Section 1.5 Environmental Management<br/>System overview</li> </ul>  |
| moderate)                          | <ul> <li>Section 3.8 Emergency and Incident<br/>Planning</li> </ul>   |
|                                    | <ul> <li>Section 3.10 Environmental non-<br/>conformities</li> </ul>  |
|                                    |   |

| Issue | Construction activity/aspect | Potential impact  | Risk level prior<br>to mitigation | Indicative Mitigation Measures   | Risk level<br>following<br>mitigation | Management Documents / Training Required  |
|-------|------------------------------|---|-----------------------------------|--|---------------------------------------|---|
|       |                              | Visual amenity impact on<br>adjacent sensitive receivers<br>including:<br>Light spill<br>Boundary screening<br>Overshadowing<br>Overlooking<br>Graffiti   | 9 (moderate)                      | <ul> <li>14001:2016 Environmental management systems – Requirements with guidance for use)</li> <li>Direct: <ul> <li>The SSI number and Project name will be displayed at the entrance to the ancillary facility</li> <li>The ancillary facility will be designed to limit overshadowing of sensitive receivers</li> <li>No facilities will look down into sensitive receivers</li> <li>Lights would be directed down and away from residential receivers</li> <li>Where required, shields are to be placed on lights to direct light away from residential receivers</li> <li>Lighting to inspected regularly during environmental inspections or during noise monitoring to ensure light spill measures are effective</li> </ul> </li> <li>Implementation of management measures outlined in the Appendix A4 Site Establishment Management Plan</li> </ul> | 6 (minor)                             | CEMP preliminary construction including<br>commencement activities:<br>• Appendix A4 Site Establishment<br>Management Plan  |
|       |                              | Undertaking activities, not<br>described in the approved<br>CEMP Preliminary construction<br>including commencement<br>activities and this risk<br>assessment                                       | 12 (moderate)                     | <ul> <li>Undertaking regular internal inspections and monitoring Undertaking inspection with external stakeholders including the ER, AA and Project Soil Conservationist</li> <li>All works will be carried out in accordance with the CPB Contractors Construction management System including ongoing environmental risk and opportunities identification during the development and review of:         <ul> <li>Project Risk Register (as per the Risk Management Plan: M6S1-CGU-NWW-PCRM-MPL-000800)</li> <li>Construction Area Plan Risk Assessments (CAPRAs)</li> <li>Work Packs, including Work Pack Risk Assessment</li> <li>Environmental Work Method Statements (EWMS) or Safe Work Method Statements (SWMSs), which address environmental risks (as applicable)</li> <li>Pre-start meetings</li> </ul> </li> </ul>                                | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.2.1 Environmental Risk Assessment Workshop</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul>  |
|       |                              | Environmental objectives and<br>targets outlined in CEMP<br>Preliminary construction<br>including commencement<br>activities (Section 3.3.1) are not<br>met including:<br>Inspections<br>Monitoring | 12 (moderate)                     | <ul> <li>Undertaking regular internal inspections and monitoring including:         <ul> <li>Air quality monitoring as per Monitoring Program</li> <li>Noise and vibration monitoring as per Monitoring Program</li> <li>Ongoing pre-construction groundwater and surface water monitoring to continue</li> </ul> </li> <li>Undertaking inspection with external stakeholders including the ER, AA and Project Soil Conservationist</li> <li>All works will be carried out in accordance with the CPB Contractors Construction management System (certified to conform to AS/NZS ISO 14001:2016 Environmental management systems – Requirements with guidance for use)</li> </ul>  | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 1.5 Environmental Management System overview</li> <li>Section 3.4 Resources, responsibilities and authority</li> <li>Section 3.9 Monitoring, inspections and auditing</li> </ul> |
|       |                              | Inadequate consultation with<br>stakeholders outlined in Section<br>2 of the CEMP Preliminary<br>construction including<br>commencement activities  | 12 (moderate)                     | <ul> <li>Direct:</li> <li>Consultation will be undertaken in accordance with the Stage Report and<br/>CEMP Preliminary construction including commencement activities</li> <li>Evidence of consultation and responses to queries will be provided within<br/>CEMP Sub-plans</li> </ul>   | 8 (minor)                             | <ul> <li>CEMP preliminary construction including commencement activities:</li> <li>Section 2 Consultation, endorsement and approval</li> </ul>  |

Table 4 Aspects and impacts register for C4, C5, C6 and permanent power supply construction ancillary facilities

| Issue                     | Construction activity/aspect           | Potential impact  | Risk level prior to<br>mitigation | Indicative Mitigation Measures | Risk le<br>m |
|---------------------------|--|---|-----------------------------------|--------------------------------|--------------|
| Traffic and<br>Access     |  |   |                                   |                                |              |
| Flora and<br>Fauna        |  |   |                                   |                                |              |
| Noise and<br>Vibration    |  |   |                                   |                                |              |
| Soil and<br>Surface Water |  |   |                                   |                                |              |
| Groundwater               | No activities will take place at C4, C | No activities will take place at C4, C5 and C6 construction ancillary facilities during Stage 1 – Preliminary Construction. |                                   |                                |              |
| Heritage                  |  |   |                                   |                                |              |
| Air Quality               |  |   |                                   |                                |              |
| Contamination             |  |   |                                   |                                |              |
| Waste                     |  |   |                                   |                                |              |
| Leachate and Landfill Gas |  |   |                                   |                                |              |

| vel following |  |
|---------------|--|
| itigation     |  |

## Management Documents / Training Required

# **Appendix A3**

# **Environment and Sustainability Policies**

M6 Stage 1 July 2021





**Environment Policy** 

## **Purpose**

This Policy sets out the minimum mandatory requirements for the management of environmental risks and impacts from our construction activities.

# Application

This Policy applies to all business entities controlled by the business, including alliances, joint ventures and consortia where the business exerts management control. It applies at all levels of the organisation including Corporate, Business Unit and Project.

# **Minimum Requirements**

- Senior leaders must demonstrate a personal visible commitment to our SH&E Cultural Framework and ensure all workers understand the requirements of the Management System as it applies to the work they are undertaking, so that work is undertaken to minimise our environmental impact.
- Environment Management Plans (EMP) must be developed and implemented for each Project to outline how the project environmental risk will be managed and controlled.
- Environmental objectives, targets and key performance indicators must be established at all levels of the organisation, with performance against these monitored and analysed to provide a baseline for continual improvement.
- The Environment Procedures must be used to eliminate or minimise environmental risk from construction activities.
- Construction Area Plans and Work Packs must be developed and include an assessment of environmental risk and associated controls.
- Site Environment Plans must be developed for Work Packs where environmental risk dictates; these must be used to inform as content of Daily Pre Starts.
- As part of the risk management process, personnel and teams at the Project, Business Unit and Corporate level should seek to identify opportunities for improving efficiency in the use of natural resources, enhancing positive environmental impacts and driving innovation.
- All environmental incidents must be reported in accordance with the incident notification requirements. They must be thoroughly investigated and appropriate corrective action undertaken with the aim of preventing recurrence of the incident.
- Reporting of energy consumption, water use and waste generation, as well as reporting on initiatives and environmental achievements must be completed by projects and business units as requested.



- All levels of the organisation must be prepared to respond to an emergency and in the event of an emergency, plans and capabilities are in place to eliminate or minimise damage to the environment, preserve ongoing operations and our reputation.
- Effective communication, cooperation and consultation channels must be in place to consult with workers who may impact upon the environment.
- All project personnel responsible for environmental risk shall be appropriately trained and competent and understand their legal obligations with regard to environment management.







# Sustainability Policy

This Policy sets out requirements for sustainability for CPB Contractors, Ghella & UGL Engineering (CGU) on the M6 Stage 1 Upgrade Project. Sustainability is the integration of environmental, social and governance factors into decision making to maximise short- and long- term shareholder value, seek competitive advantage, and contribute to safe and healthy employees, communities and ecosystems.

This Policy is consistent with the CIMIC Sustainability Policy and applies to all employees, and third parties engaged by CGU. The objectives of this Sustainability Policy are to:

- Focus CGU's efforts on managing sustainability risks and opportunities, enhancing business performance and supporting the long-term interests of CGU;
- Promote a culture of accountability for sustainability outcomes and improve the sustainability knowledge and skills of employees;
- Integrate consideration of environmentally and socially responsible sourcing and governance factors into CGU's operating and procurement processes, and seek opportunities to collaborate with the supply chain to drive innovation and create mutual value;
- Drive the efficient use of resources and continual innovation in the delivery of the Project;
- Support the adoption and delivery of the Infrastructure Sustainability (IS) rating schemes and other standards that drive sustainability outcomes;
- Encourage and pursue sustainability initiatives and programs that are consistent with the scope of work and technical criteria and meet client expectations, provide value for money, and leave net positive legacies for CGU, our client, project stakeholders, the environment and communities; and
- Enhance resilience to climate change.

CGU will regularly review strategies, reporting and performance to ensure compliance with all legislative requirements and support continuous improvement in sustainability and business performance.

Glen Ashton

Date: 14 July 2021

M6 Stage 1 Project Director

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# Appendix A4

# Site Environmental Management Plan

M6 Stage 1: Preliminary construction including commencement activities October 2021

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# Site Establishment Management Plan

This Site Establishment Management Plan (SEMP) relates to the M6 Stage 1 Project (the Project) and has been prepared in accordance with the:

- Minister's Conditions of Approval (CoA);
- M6 Stage 1 Environmental Impact Statement (EIS);
- Preferred Infrastructure Report (PIR);
- Requirements of EMP guidance as specified by the Department of Planning, Industry and Environment (DPIE); and
- The Staging Report (M6S1-CGU-NWW-ENPE-PLN-000401).

This SEMP forms part of the Preliminary CEMP (M6S1-CGU-NWW-ENPE-MPL-000400) and should be read in conjunction with the main body of the CEMP and associated CEMP Sub-plans and Management Procedures in Appendix B.

Table 1 outlines the desired performance outcomes identified in Chapter 24 of the M6 Stage 1 EIS and references where these performance outcomes are addressed in the SEMP.

| Desired performance outcome              | Project outcome  | Reference in document                 |
|--|--|---------------------------------------|
|  | Moderate adverse visual and<br>landscape character impacts at<br>around Rockdale Bicentennial Park<br>during construction  | Refer to Table 6, reference C3        |
| Place making and urban design            | Receptors are not expected to<br>experience significant changes to<br>their night time visual and light<br>environment during construction and<br>operation.   | Refer to Table 6                      |
|  | Majority of amenity and community<br>wellbeing, and access and<br>connectivity impacts during<br>construction would be temporary and<br>short term   | Refer to Table 6, reference C2 and C3 |
| Socio-economic, Land Use and<br>Property | All construction sites have the<br>potential to be impacted by flooding<br>to some degree however the Flood<br>Management Strategy would be<br>prepared to manage the risk of<br>adverse flood impacts being<br>experienced by construction workers<br>and infrastructure. | Refer to Table 6                      |

Table 1 Desired performance outcomes from M6 Stage 1 Environmental Impact Statement Chapter 24

Table 2 outlines how this SEMP will comply with CoA A17.

## Table 2 Compliance to CoA A17

| СоА | Condition Detail   | Where CoA has been addressed  |
|-----|--|---|
|     | Site Establishment Management Plan   |   |
|     | The Proponent must prepare and submit for approval to the Planning Secretary one (1) month before the establishment of any construction ancillary facility (excluding minor construction ancillary facilities established under Condition A19) a Site Establishment Management Plan. The Plan must be prepared in consultation with the relevant council and government agencies and must include: |   |
|     |  | Management practices and<br>procedures are outlined in Section 3<br>and Section 4 of the CEMP<br>Preliminary construction including<br>commencement activities. |
| A17 | <ul> <li>an outline of the environmental management practices and procedures to be implemented at the<br/>facility(ies);</li> </ul>  | Refer to Appendix B CEMP Sub-<br>plans and Management Procedures,<br>of the CEMP Preliminary construction<br>including commencement activities                  |
|     |  | Site Environmental Plans (SEPs),<br>featured in Appendix A of the SEMP  |
|     |  | Description of activities are featured in:  |
|     | b) a description of activities to be undertaken during establishment of the construction ancillary facility  | • Table 5 and Table 6 of the SEMP; and  |
|     | (including scheduling and duration of works to be undertaken at the site);   | • Section 1.1, Section 1.4 and<br>Table 1 of the CEMP Preliminary<br>construction including<br>commencement activities  |
|     | c) figures illustrating the proposed operational site layout;  | Figures illustrating the proposed<br>layout are found in the SEPs,<br>featured in Appendix A of the SEMP  |

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| СоА | Condition Detail   | Where CoA has been addressed  |
|-----|--|---|
|     |  | Initial risk assessment is found in<br>Appendix A2 of the CEMP<br>Preliminary construction including<br>commencement activities   |
|     | <ul> <li>a program for ongoing analysis of the key environmental risks arising from the site establishment<br/>activities described in subsection (b) of this condition, including an initial risk assessment<br/>undertaken prior to the commencement of site establishment works;</li> </ul> | Ongoing analysis of key<br>environmental risks will be carried out<br>in accordance with Section 1.5 and<br>Section 3 CEMP Preliminary<br>construction including<br>commencement activities   |
|     |  | SEPs, featured in Appendix A of the SEMP  |
|     | e) details of how the site establishment activities described in subsection (b) of this condition will be carried out to:  |   |
|     | i. meet the performance outcomes stated in the documents listed in Condition A1, and   | Refer to Table 1<br>Also refer to Appendix A1 Legal and<br>Compliance Tracking, of the CEMP<br>Preliminary construction including<br>commencement activities.   |
|     | ii. manage the risks identified in the risk analysis undertaken in subsection (d) of this condition;<br>and  | <ul> <li>Risk will be managed in accordance with:</li> <li>Section 3 and Section 4 of the CEMP Preliminary construction including commencement activities;</li> <li>Appendix B CEMP Sub-plans and Management Procedures, of the CEMP Preliminary construction including commencement activities; and</li> </ul> |

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| СоА | Condition Detail   | Where CoA has been addressed  |
|-----|--|---|
|     |  | • SEPs, featured in Appendix A of the SEMP.   |
|     | f) a program for monitoring the performance outcomes, including a program for noise monitoring of  | Performance outcomes applicable to<br>Stage 1 preliminary construction are<br>outlined in Tables 7-9, Section 3.3.1<br>of the CEMP Preliminary construction<br>including commencement activities. |
|     | site establishment activities.   | Monitoring programs applicable to<br>Stage 1 preliminary construction are<br>outlined in Table 5, Section 3.2.1 of<br>the CEMP Preliminary construction<br>including commencement activities.     |
|     | The establishment of the construction ancillary facilities cannot commence until the Planning Secretary has approved the Site Establishment Management Plan for the relevant ancillary facility or facilities. Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility or one Site Establishment Management Plan for all facilities. The approved Site Establishment Management Plan(s) must be implemented. | This SEMP will be updated prior to<br>the establishment or update of any<br>Project ancillary facilities, in<br>accordance with Figure 1.   |

# Approval and amendment of ancillary facilities

# Overview of approval for establishment of ancillary facilities

The approval process for ancillary facilities is depicted in Figure 1 below.

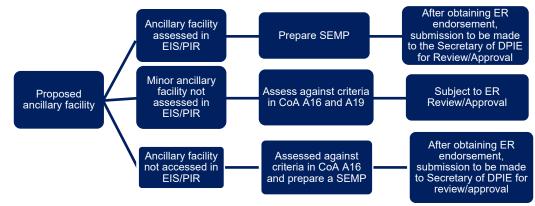


Figure 1 Approval process for ancillary facilities

# Ancillary facilities identified in the EIS and PIR

The CoA A17 approve the use of the ancillary facilities described in the EIS and PIR to facilitate construction of the Project. All ancillary facilities will be constructed as described in Table 1 and Appendix A. The operation of all ancillary facilities will be in accordance with the Preliminary CEMP and the associated CEMP Sub-plans and Management Procedures found in Appendix B.

Minor changes to the use or layout of the ancillary facilities may be required to facilitate constructability, amenity or traffic staging. This may include:

- Interchangeable use of laydown/storage and car parking areas;
- Relocation of internal access roads to allow for efficiencies in heavy vehicle/light vehicle movements;
- Alteration to car parking/container and laydown areas for safe working distances;
- Movement of portable site accommodation, workshops and containers for construction staging;
- Management of environmental constraints and/or in response to community and agency feedback; and
- Demobilisation of the facilities as construction works progress and near completion.

Key structures are less likely to change unless their use to support specific site establishment works is no longer required.

Any changes to these ancillary facilities will be assessed against the CoA to determine compliance, and appropriate approval will be sought where required. Where the proposed change is considered to be minor, the Environmental Representative has authority to grant approval.

# Ancillary Facilities not identified in EIS and PIR

Where ancillary facilities are proposed as they are required to facilitate the construction of the Project but they have not been identified by description and location in the EIS and PIR, the ancillary facilities must be assessed against CoA A16:

- (a) they are located within or immediately adjacent to the construction boundary; and
- (b) they are not located next to a sensitive receiver (including where an access road is between the facility and the receiver), unless the sensitive receiver landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location; and
- (c) they have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and
- (d) the establishment and use of the facility can be carried out and managed within the performance outcomes set out in the terms of this approval, including in relation to environmental impacts.

Where the proposed ancillary facility complies with CoA A16, this SEMP will be updated to include the ancillary facility. The updated SEMP will then be endorsed before being submitted to DPIE for review and approval. The establishment of the proposed ancillary facility cannot occur until the SEMP has approved by DPIE. Refer to Figure 1 for detail on this process.

# Minor construction ancillary facilities

There may be circumstances during the construction of the Project where Minor Construction Ancillary Facilities are required. Under CoA A19, additional minor construction ancillary facilities (e.g. lunch sheds, office sheds and portable toilet facilities) can be established during construction so long as they:

- a) Are located within the construction boundary; and
- b) Have been assessed by the Environmental Representative to have:
  - i. low amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts;
  - ii. low environmental impact with respect to waste management and flooding; and
  - iii. no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.

The Environmental Representative will review the proposed minor construction ancillary facilities against the above criteria and make an approval determination.

# **Compliance to other relevant conditions**

Table 3 and Table 4 address other relevant Ministers Conditions of Approval and Environmental Mitigation Measures respectively.

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## Table 3 Relevant Ministers Conditions of Approval

| СоА | Condition text  | Where this addressed  |
|-----|---|---|
|     | Boundary screening must be erected around all ancillary facilities that are adjacent to sensitive receivers for the   | This will be addressed in design of construction ancillary facilities at C2 Rockdale Depot and C3 Rockdale Bicentennial Park.   |
| A20 | duration of construction unless otherwise agreed with the<br>relevant council and affected residents, business operators<br>or landowners.                  | The C1 Arncliffe construction ancillary facility has existing boundary screening from M8 Motorway which will remain in place.   |
|     |   | Refer to Table 6 and the SEPs in Appendix A.  |
|     |   | This will be addressed in design of construction ancillary facilities for the C2 Rockdale Depot and C3 Rockdale Bicentennial Park.  |
| A21 | Boundary screening required under Condition A20 of this<br>approval must minimise visual, noise and air quality impacts<br>on adjacent sensitive receivers. | C1 Arncliffe construction ancillary facility has existing boundary screening from M8 Motorway which will remain in place.   |
|     |   | Refer to Table 6 and the SEPs in Appendix A for indicative locations of noise walls and hoarding at C2 and C3 which will be installed during Stage 1 Preliminary Construction, and the current location of noise walls and hoarding at C1.  |
| A42 | Signage on hoardings surrounding construction ancillary facilities must include the CSSI name and application number.                                       | All compounds to have signage at the entry, which identifies<br>the Project and application number. This sign will be<br>mounted to either a noise wall or hoarding at the entrance to<br>site. The Project name will also be displayed on the TfNSW<br>banner (which will be mounted to specific noise walls and<br>hoarding). |
|     |   | Refer to Table 6 and the SEPs in Appendix A.  |

| СоА  | Condition text  | Where this addressed   |
|------|---|--|
| E122 | Access to and from the Rockdale construction ancillary<br>facility (C2) by heavy vehicles must only be via West Botany<br>Street, unless otherwise approved by the Planning   | This will be addressed in design of construction ancillary facilities at C2 Rockdale Depot. Boundary fencing will prevent access from any other avenue.  |
|      | Secretary.  | Refer to Table 6 and the SEPs in Appendix A. For further information on Traffic and Access, refer to the Traffic and Access Management Procedure (Appendix B1 of the CEMP).  |
| E129 | Construction vehicles (including staff vehicles) associated<br>with the CSSI must be managed to minimise parking, idling<br>and queuing on public roads.  | This will be addressed in the design of the construction<br>ancillary facilities (i.e. haul roads, staging areas and onsite<br>car parking). Timing of heavy vehicles will also be staged to<br>avoid queuing on public roads. |
|      |   | Refer to Table 6.  |
|      |   | For further information on Traffic and Access, refer to the Traffic and Access Management Procedure (Appendix B1 of the CEMP).   |
| E136 | The CSSI must be constructed in a manner that minimises<br>visual impacts of construction sites, such as providing<br>temporary landscaping and vegetative screening of the<br>construction sites, minimising light spill, and incorporating<br>treatments and finishes within key elements of temporary<br>structures that reflect the context within which the<br>construction sites are located. | This will be addressed in design of construction ancillary<br>facilities at C2 Rockdale Depot and C3 Rockdale<br>Bicentennial Park.<br>Refer to the boundary screening section in Table 6.                                     |
| E141 | The Proponent must implement measures, in consultation<br>with affected residents, to prevent headlights from vehicles<br>exiting the Rockdale construction ancillary facility (C2)<br>spilling onto residences along West Botany street that are<br>adjacent to and opposite the site access way.  | This will be addressed in design of construction ancillary<br>facilities at C2 Rockdale Depot. Consultation with property<br>owners will be undertaken in accordance with the<br>Communication Strategy.<br>Refer to Table 6.  |

11 | M6 Stage 1 CEMP Preliminary construction including commencement activities: Site Establishment Management Plan 19 October 2021 Version 01 UNCONTROLLED WHEN PRINTED Table 4 Relevant Environmental Management Measures

| EMM   | Environmental Mitigation Measure text Where this addressed   |   |
|-------|--|---|
| LVIA3 | Construction and operational lighting will be oriented to<br>minimise glare and light spill impacts on adjacent receptors.   | This will be addressed in design of construction ancillary<br>facilities at C2 Rockdale Depot and C3 Rockdale<br>Bicentennial Park. Lighting will continue to be positioned<br>away from residential receivers and the frog habitat at C1<br>Arncliffe construction ancillary facility. |
|       |  | This will be monitored throughout CEMP activities.  |
|       |  | Refer to Table 6.   |
| LVIA4 | The design and maintenance of construction compound<br>hoardings will aim to minimise visual impacts and landscape<br>character impact, including the prompt removal of graffiti.                                    | This will be addressed in design of construction ancillary facilities at C2 Rockdale Depot and C3 Rockdale Bicentennial Park.   |
|       |  | The C1 Arncliffe construction ancillary facility has existing boundary screening from M8 Motorway which will remain in place.   |
|       |  | Refer to the boundary screening section in Table 6 and the SEPs in Appendix A.  |
|       | A Site Establishment Management Plan will be prepared prior to construction and will have regard to the amenity of   | This will be addressed in design of construction ancillary facilities at C2 Rockdale Depot and C3 Rockdale Bicentennial Park.   |
| SE1   | adjacent areas and minimising impacts to adjacent sensitive<br>receivers, including potential noise, dust, traffic, visual,<br>lighting and overshadowing and overlooking impacts during<br>the establishment phase. | The C1 Arncliffe construction ancillary facility has existing compound from M8 Motorway. Changes to the visual amenity of this compound are not expected.   |
|       |  | Refer to Table 6 and the SEPs in Appendix A.  |

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| EMM   | Environmental Mitigation Measure text  | Where this addressed   |  |
|-------|--|--|--|
| SWF12 | As a minimum, site facilities are to be located outside high<br>flood hazard areas based on a one per cent AEP flood. For<br>site facilities located within the floodplain, the FMS is to<br>identify how risks to personal safety and damage to<br>construction facilities and equipment will be managed. | Design of the construction compounds has considered<br>results of flood modelling and the Flood Mitigation Strategy.<br>The Flood Mitigation Strategy has been developed and will<br>be assessed and updated throughout the lifetime of the<br>Project. It identifies risks to personal safety and damage to<br>construction facilities and equipment and how they will be<br>managed. Refer to Table 6. |  |
| GG5   | Construction site layouts will be designed to reduce travel distances and double handling of materials so as to reduce   | The design of construction ancillary facilities and site<br>establishment activities will be optimised to reduce travel<br>distances. Location of acoustic sheds at C2 and C3 will be<br>positioned to reduce travel time of truck and dogs within the<br>construction ancillary facility.   |  |
|       | fuel usage and emission generation.  | Stage 1 Preliminary Construction activities will be carried out<br>in a manner which will avoid double handling of materials.<br>This will include allocating designated stockpile and laydown<br>areas. Refer to Table 6.   |  |

# Site Establishment Overview

Six (6) ancillary facilities were identified and described in the Environmental Impact Statement (EIS) and Preferred Infrastructure Report (PIR) as being required to facilitate the construction of the Project. They included:

- C1 Arncliffe construction ancillary facility;
- C2 Rockdale construction ancillary facility;
- C3 President Avenue construction ancillary facility;
- C4 and C5 Shared cycle and pedestrian pathways construction ancillary facilities; and
- C6 Princes Highway construction ancillary facility.

Due to site access schedule and construction program, not all ancillary facilities will be established during Stage 1 Preliminary Construction. The scope of this SEMP includes the three ancillary facilities which will be established and operated during Stage 1 Preliminary Construction:

- C1 Arncliffe construction ancillary facility;
- C2 Rockdale construction ancillary facility; and
- C3 President Avenue construction ancillary facility;

Table 5 describes each ancillary facilities and their proposed uses during Stage 1 Preliminary Construction and Stage 2 Construction.

Table 6 outlines measures which will be undertaken to address aspects related to the establishment of construction ancillary facilities.

#### Table 5 Ancillary Facilities and associated activities

| Ref | Ancillary facility                                       | Primary activities during preliminary construction (Stage 1)  | Primary activities during  |
|-----|--|---|--|
| C1  | Arncliffe construction ancillary<br>facility (C1)        | <ul> <li>Installation and/or repair of environmental mitigation measures (wheel baths, site hoarding and noise walls, frog fencing and for the ongoing management of the pre-existing stockpile)</li> <li>Upgrade, refurbishment and use of site offices and amenities</li> <li>Refurbishment and use of workshops to facilitate delivery and assembly of construction equipment and plant</li> <li>Assessment and refurbishment of site services (sewer, low and high voltage power, water, dewatering facilities and compressed air)</li> <li>Assessment and refurbishment of existing equipment such as the water treatment plant, shaft access equipment (alimak and gantry crane), spoil bunds and acoustic sheds (some repairs required)</li> <li>Assessment and repair of existing M8 tunnel access structures (dive, shaft and adits) and services including: <ul> <li>Geotechnical safety assessments</li> <li>Repair and replacement of temporary tunnel support systems as required</li> <li>Invert repairs (to facilitate subsequent construction access)</li> <li>Repair and refurbish tunnel services such as lighting, ventilation, power supply and communication equipment</li> <li>Upgrade or replace exiting construction service pipes (dewater, air) and emergency equipment (call points, caches etc).</li> </ul> </li> </ul> | <ul> <li>Operation of construction ancillary facilities</li> <li>Bulk excavation of tunnels including installation systems,</li> <li>Construction of back-end works (e.g. drainage</li> <li>Construction of MOC and facilities</li> <li>Mechanical and electrical fit-out of tunnels and</li> <li>Reinstatement and rehabilitation of construction</li> <li>Other works as required to fulfil Project object</li> </ul>                |
| C2  | Rockdale construction ancillary<br>facility (C2)         | <ul> <li>Demolition of existing depot structures and property adjustments where required for access and site establishment</li> <li>Installation of mitigation measures including noise walls, fencing, hoarding, wheel bath, sediment and erosion control devices, and drainage</li> <li>Removal of vegetation in depot, which does not include any Plant Community Types (PCTs) or Threatened Ecological Communities (TECs)</li> <li>Installation of site offices, amenities, workshop and parking</li> <li>Connection of services such as water, sewer and power to offices and amenities</li> <li>Minor site levelling and installation of haul roads and hardstands</li> <li>Delivery and assembly of plant and equipment including water treatment plant</li> <li>Creation of working platforms and pads for subsequent construction activities</li> <li>Construction of footings for noise walls, bentonite plant and construction water treatment plant (which may include some bored piling due to poor ground conditions)</li> </ul>  | <ul> <li>Operation of construction ancillary facilities ind</li> <li>Bulk excavation of a temporary shaft, tunnel a tunnel support and groundwater control system</li> <li>Supporting construction of backend works (e.g.</li> <li>Mechanical and electrical fit-out as required</li> <li>Reinstatement of construction areas</li> <li>Other works as required to fulfil Project object</li> </ul>                                     |
| C3  | President Avenue construction<br>ancillary facility (C3) | <ul> <li>MOC area (west of West Botany Street)</li> <li>Demolition of existing structures and property adjustments including:</li> <li>Disconnection of existing services to buildings requiring removal</li> <li>Adjustments to services, including sewer and overhead wiring</li> <li>Installation of fencing and crib sheds</li> <li>Creation of working platforms and pads for subsequent construction activities</li> <li>Within areas of Bicentennial Park (east of West Botany Street):</li> </ul>   | <ul> <li>Operation of construction ancillary facilities ind<br/>water treatment plant and a waterway diversion</li> <li>Bulk excavation of a temporary shaft, permane<br/>ramps), cut and cover and entry ramps, includ<br/>construction, tunnel support and groundwater</li> <li>Ground improvement works</li> <li>Construction of back-end works (e.g. drainage</li> <li>Mechanical and electrical fit-out of tunnels and</li> </ul> |

### g construction (Stage 2)

tion of tunnel support and groundwater control

age, pavements, barriers)

nd structures

ction areas

ectives

including construction of an acoustic shed and caverns including installation of shaft and stems

e.g. drainage, pavement, barriers)

ctives

including construction of an acoustic shed, sion

anent ventilation shaft, tunnels (soft ground and luding ground improvement, diaphragm wall ter control systems

age, pavements, barriers)

ind structures as required

| Ref                  | Ancillary facility   | Primary activities during preliminary construction (Stage 1)   | Primary activities during  |
|----------------------|--|--|--|
|                      |  | <ul> <li>Install pedestrian pathway between West Botany Street and Brighton-Le-Sands Public School</li> <li>Installation of mitigation measures including fencing, noise walls, hoarding, wheel bath, sediment and erosion control</li> <li>Demolition of existing structures (picnic and barbeque shelter) and property adjustments including minor vegetation clearing in compound area (no clearing of any PCTs or TECs for Stage 1)</li> <li>Site levelling, which will include: <ul> <li>Removal of existing kerbs and garden beds;</li> <li>Installation of geofabric; and</li> <li>Spreading and compaction of imported material to design levels.</li> </ul> </li> <li>Installation of site offices, amenities including establishment and use of workshop to facilitate delivery, inspection and assembly of construction plant and equipment</li> <li>Installation of site equipment such as a water treatment plant and bentonite plant</li> <li>Other commencement activities related to site establishment including construction of stabilised site access (but not operation of a construction compound)</li> </ul> | <ul> <li>Construction of MOC and facilities</li> <li>Upgrade of road network including a new inter infrastructure</li> <li>Reinstatement and rehabilitation of construction recreational facilities including an active transperies</li> <li>Other works as required to fulfil Project objection</li> </ul>                  |
| C4 & C5 <sup>1</sup> | Shared cycle and pedestrian<br>pathways construction ancillary<br>facilities (C4 and C5) | No activities or works are proposed during Stage 1: Preliminary construction   | <ul> <li>Establishment and operation of construction a</li> <li>Installation of the Active Transport Corridor indexisting transport corridors</li> <li>Reinstatement and rehabilitation of construction</li> <li>Other works as required to fulfil Project objection</li> </ul>  |
| C6 <sup>1</sup>      | Princes Highway construction<br>ancillary facility (C6)                                  | No activities or works are proposed during Stage 1: Preliminary construction   | <ul> <li>Establishment and operation of construction a</li> <li>Upgrade of road networks and transport corrid<br/>and amendments.</li> <li>Traffic staging as required</li> <li>Remediation of the former petrol stations and<br/>construction areas</li> <li>Other works as required to fulfil Project objection</li> </ul> |
| -                    | Permanent Power Supply   | No activities or works are proposed during Stage 1: Preliminary construction   | <ul> <li>Installation of Permanent Power Supply from E<br/>underbore works, cable pulling, cable joining,<br/>works</li> </ul>   |

## g construction (Stage 2)

tersection for tunnel access and associated

- ction areas, installation and finalisation of nsport corridor
- ctives

- ancillary facilities
- including interface and upgrade of road and
- tion areas
- ctives
- ancillary facilities
- ridors including utility modifications, relocations
- d reinstatement and rehabilitation of
- ctives
- n Earlwood to Rockdale, including trenching, g, commissioning, restoration and rehabilitation

#### Table 6 Aspects and details of construction ancillary facilities

| Ref | Ancillary facility                             | Aspect  | Detail   |
|-----|--|---|--|
|     |  |   | The existing boundary screening around the ancillary facility was established during the construction of the M quality impacts of the ancillary facilities sites and construction activities on adjacent sensitive receivers (i.e. re local roads and recreational users of the Kogarah Golf Course). This will remain in place throughout the durat |
|     |  |   | The noise wall which runs adjacent to Marsh Street;  |
|     |  | Boundary screening                                | <ul> <li>Noise wall will feature TfNSW signage and branding including in the NSW Government Logo<br/>the community, image relevant to the site and key benefits of the project.</li> </ul>   |
|     |  |   | Hoarding which runs along the boundary of the ancillary facility:  |
|     |  |   | • Hoarding was painted green to reflect the golf course context and will be maintained throug  |
|     |  |   | Repairs and maintenance on the existing boundary screening will occur where necessary.   |
|     |  |   | Graffiti will be removed.  |
|     |  |   | This ancillary facility was established during the construction of the M8 Motorway in a manner that minimises sites.   |
|     |  |   | Upgrades and refurbishments will be generally consistent with the existing ancillary facility.   |
|     |  | Visual screening and light spill                  | Lighting will be required at night at this ancillary facility for the purposes of illuminated office buildings, providin lighting for oversized deliveries.  |
|     | Arncliffe construction ancillary facility (C1) |   | Lights will be positioned as far away as possible and pointed away from neighbours and the Frog Habitat.   |
|     |  |   | All practicable and reasonable steps will be taken to mitigate night lighting.   |
| C1  |  | Project identification                            | The SSI number and Project name will be displayed on a sign mounted to the noise wall at the entrance to the be displayed on the TfNSW Banner.   |
|     |  |   | Contact information will also be provided in the form of the Project Hotline and Information email address.  |
|     |  | Overshadowing and overlooking<br>Flood mitigation | The ancillary facility will not cause overshadowing to sensitive receivers.  |
|     |  |   | No facilities will look down into sensitive receivers.   |
|     |  |   | A Flood Mitigation Strategy was developed prior to the construction of the M8 Motorway. This has been incorr<br>Flood Mitigation Strategy.   |
|     |  |   | The ancillary facility will continue to operate, and activities carried out in such a manner that is consistent with   |
|     |  |   | The ancillary facility was established during the construction of the M8 Motorway and was designed to avoid or<br>Preliminary Construction:  |
|     |  |   | Deliveries will be coordinated to avoid congestion and queuing; and  |
|     |  |   | • If required, vehicles will que within the site compound along haul road or within acoustic sheds.  |
|     |  |   | Some parking is available for workers on site.   |
|     |  | Vehicle management                                | Access to the compound is outlined in the Traffic and Access Management Procedure.   |
|     |  |   | Access will be via Marsh Street only (left in when travelling in south bound lanes, right in when travel   |
|     |  |   | <ul> <li>Vehicles will utilise the dedicated right-hand turning lane and obey traffic signals;</li> </ul>  |
|     |  |   | Strictly no access from Flora Street; and  |
|     |  |   | Exit from site is strictly a left-hand turn onto Marsh Street.   |
|     |  |   | This section will be updated with further measures for spoil haulage trucks, which will commence in Stage 2 C  |
|     |  | Boundary screening                                | Ancillary facilities will be constructed in a manner that minimises the visual, noise and air quality impacts of th receivers.   |
| ł   |  |   | Noise walls within the compound will be installed in accordance with the mitigation measures outlined constru  |

M8 Motorway to minimise visual, noise and air residential receivers along Marsh Street and ration of the Project and includes: ogo, Project Name, Key Project contact points for ughout the lifetime of the Project. es the visual impacts of the ancillary facilities iding security around compounds and adequate the ancillary facility. The Project name will also

orporated into the Flood Modelling and Project

vith the Flood Mitigation Strategy.

d queuing on Marsh Street. During Stage 1

velling in north bound lanes);

Construction (Dec-21).

the ancillary facilities sites on adjacent sensitive

truction ancillary facility CNVIS.

| Ref | Ancillary facility                            | Aspect                           | Detail   |
|-----|---|----------------------------------|--|
|     |   |                                  | The boundary screening will also be used to minimise visual, noise and air quality impacts from construction activities on adjacent sensitive receivers. This includes:  |
|     |   |                                  | • Noise walls will be installed on the northern boundary of the ancillary facility and it will be painted Dulux Pale Eucalypt as it is sympathetic with the surrounding environment and context of the site and provides the residents with a soft colour along the boundary of the site;  |
| C2  | Rockdale construction ancillary facility (C2) |                                  | Hoarding will be installed along the southern boundary of the ancillary facility;  |
|     | (02)  |                                  | • Fencing will also be installed along sections of the southern boundary. Shade cloth will be installed on fencing and will feature the TfNSW banner; and  |
|     |   |                                  | Refer to SEP in Appendix A for indicative locations of noise walls and fencing.  |
|     |   |                                  | Graffiti will be removed.  |
|     |   | Existing structures              | Where possible, existing structures will be maintained and utilised for temporarily during construction. Examples may include the use of existing boundary fencing along the easter and western boundary of the compound and retaining and utilising the building located on the far eastern side of the compound.   |
|     |   |                                  | Where possible, trees will be retained to provide screening to neighbours.   |
|     |   |                                  | Lighting will be required at night at this ancillary facility for the purposes of illuminated office buildings, providing security around compounds and adequate lighting for oversized deliveries.  |
|     |   | Visual screening and light spill | Lights will be positioned as far away as possible and pointed away from neighbours.  |
|     |   |                                  | All practicable and reasonable steps will be taken to mitigate night lighting.   |
|     |   |                                  | Property owners opposite the access gate, will be consulted on reasonable and feasible measures to reduce the impacts of headlights from exiting vehicles. Existing measures installed at property will be inspected to determine if they provide sufficient shielding. Where deemed insufficient, CGU will carry out further consultation with the property owners to determine adequate mitigation measures. |
|     |   | Project identification           | The SSI number and Project name will be displayed on a sign mounted to a noise wall at the entrance to the ancillary facility. The Project name will also be displayed on the TfNSW Banner.  |
|     |   |                                  | Contact information will also be provided in the form of the Project Hotline and Information email address.  |
|     |   |                                  | Temporary office compound:   |
|     |   |                                  | A temporary office will be erected in the north eastern corner of the compound.  |
|     |   |                                  | This office will be double stacked at a height of approximately 5.6m.  |
|     |   |                                  | No overshadowing will occur from this office compound as sensitive receivers are located north of the site boundary.   |
|     |   |                                  | Windows facing sensitive receivers will be shielded.   |
|     |   | Overshadowing and overlooking    | Temporary acoustic shed:   |
|     |   |                                  | <ul> <li>A temporary acoustic shed will be constructed to mitigate noise impacts related to tunnel support activities. Construction of this shed will occur in<br/>Stage 2 Construction (Dec-21).</li> </ul>   |
|     |   |                                  | <ul> <li>Temporary overshadowing from the temporary acoustic shed will occur at two sensitive receivers (392 and 396 West Botany Street) in the<br/>morning.</li> </ul>  |
|     |   |                                  | • The acoustic shed will be removed on the completion of the support activities at this ancillary facility and the site restored to its previous condition and use (TfNSW depot).  |
|     |   | Flood mitigation                 | A Flood Mitigation Strategy has been developed and flood modelling has been considered in the design of the C2 compound.   |
|     |   |                                  | The ancillary facility will be designed to minimise queuing on West Botany Street. During Stage 1 Preliminary Construction, this may be achieved through:  |
|     |   |                                  | Coordination of deliveries into C2;  |
|     |   | Vehicle management               | Implementing traffic control where required; and   |
|     |   |                                  | • Finalising design of the signalised intersection and organising resources to carry out this activity during Stage 2 Construction.  |
|     |   |                                  | Stage 1 Preliminary Construction activities will be carried out in a manner which will avoid double handling of materials. This will include allocating designated stockpile and laydown areas.  |

| Ref | Ancillary facility                                       | Aspect                           | Detail  |
|-----|--|----------------------------------|---|
|     |  |                                  | Some parking will be available for workers on site. Parking will also be available at C3.   |
|     |  |                                  | Access to the compound is outlined in the Traffic and Access Management Procedure.  |
|     |  |                                  | Access to the compound will only be via West Botany Street; and   |
|     |  |                                  | Left into and left out of compound will be enforced.  |
|     |  |                                  | Stage 2 Construction:   |
|     |  |                                  | <ul> <li>Temporary acoustic shed will be designed to optimise reduce travel distances of vehicles. This include<br/>reduce travel time of truck and dogs within the construction ancillary facility.</li> </ul>   |
|     |  |                                  | Ancillary facilities will be constructed in a manner that minimises the visual, noise and air quality impacts of the receivers. This will include maintaining vegetation screening where possible, including along the access to Brig screening between the construction compound and Brighton-Le-Sands Public School will be maintained as far |
|     |  |                                  | Noise walls within the compound will be installed in accordance with the mitigation measures outlined construct around the compound will be progressively installed as CGU obtains land, as per the Site Access Schedule.   |
|     |  |                                  | During Stage 1 Preliminary Construction, boundary screening will be installed to minimise visual, noise and air on adjacent sensitive receivers. This includes:   |
|     |  | Boundary screening               | <ul> <li>A noise wall along the western boundary of the compound (adjacent to West Botany Street) which will including in the NSW Government Logo, Project name, key Project contact points for the community, the project.</li> </ul>  |
|     |  |                                  | <ul> <li>Chain-link fencing with shade cloth will be installed along northern boundary where the pedestrian foo<br/>Brighton-Le-Sands Public School. There is potential that an Indigenous Aboriginal Motif may be incorport.</li> </ul>  |
|     |  |                                  | Refer to SEP in Appendix A for indicative location of noise walls and fencing.  |
|     |  |                                  | This SEMP will be updated for Stage 2 Construction to include the location of boundary screening which will b Schedule.   |
|     |  |                                  | Where reasonable and feasible, treatments and finishes of key visible temporary elements will be selected that include colours compatible with Dulux Pale Eucalypt as it is sympathetic to the park environment and surround  |
|     |  |                                  | Graffiti will be removed.   |
| C3  | President Avenue construction<br>ancillary facility (C3) | Existing structures              | Where possible, existing structures will be maintained and utilised temporarily during construction. Examples n footpaths or pathways, utilising the existing warehouse adjacent to MOC3 for site offices, toilet and shower fac (adjacent to Pet-O).   |
|     |  |                                  | Where possible, trees will be retained to provide screening to neighbours.  |
|     |  | Visual screening and light spill | Lighting will be required at night at this ancillary facility for the purposes of illuminated office buildings, providin lighting for oversized deliveries.   |
|     |  |                                  | Lights will be positioned as far away as possible and pointed away from neighbours.   |
|     |  |                                  | All practicable and reasonable steps will be taken to mitigate night lighting.  |
|     |  | Project identification           | The SSI number and Project name will be displayed on a sign mounted on the noise wall at the entrance to the be displayed on the TfNSW Banner.  |
|     |  |                                  | Contact information will also be provided in the form of the Project Hotline and Information email address.   |
|     |  |                                  | No overshadowing or overlooking will occur from the establishment of this temporary ancillary facility.   |
|     |  | Overshadowing and overlooking    | Overshadowing of commercial receivers will occur with the completion of MOC3. This will be addressed in the   |
|     |  | Flood mitigation                 | A Flood Mitigation Strategy has been developed and flood modelling has been considered in the design of C3<br>Construction, no works will occur within watercourses.  |
|     |  | Vehicle Management               | <ul> <li>The ancillary facility will be designed to minimise queuing on West Botany Street. During Stage 1 Preliminary C</li> <li>Coordination of deliveries into C3;</li> </ul>  |

| sludes positioning the temporary acoustic shed to   |
|---|
| f the ancillary facilities sites on adjacent sensitive<br>Brighton-Le-Sands Public School. Vegetation<br>a far as possible. |
| struction ancillary facility CNVIS. Noise walls<br>e.   |
| d air quality impacts from construction activities  |
| will feature TfNSW signage and branding ity, image relevant to the site and key benefits of                                 |
| footpath connects West Botany Street to the corporated into the mesh design.  |
| ill be installed progressively as per Site Access   |
| that reflect the local context. This is expected to<br>ounding sporting fields.   |
| es may include use of existing pedestrian<br>r facilities and maintaining the existing car park                             |
| riding security around compounds and adequate   |
| o the ancillary facility. The Project name will also  |

the Urban Landscape Design Plan.

C3 compound. During Stage 1 Preliminary

ary Construction, this will be achieved through:

| Ref       | Ancillary facility   | Aspect                                | Detail  |
|-----------|--|---------------------------------------|---|
|           |  |                                       | Implementing traffic control where required; and  |
|           |  |                                       | <ul> <li>Undertaking construction activities to build the permanent access points.</li> </ul>   |
|           |  |                                       | Stage 1 Preliminary Construction activities will be carried out in a manner which will avoid double handling of designated stockpile and laydown areas.   |
|           |  |                                       | Some parking will be available for workers on site.   |
|           |  |                                       | Access to the compound is outlined in the Traffic and Access Management Procedure.  |
|           |  |                                       | <ul> <li>Access to the compounds will only be via West Botany Street; and</li> </ul>  |
|           |  |                                       | Left into compounds and left out of compounds will be enforced.   |
|           |  |                                       | Stage 2 Construction:   |
|           |  |                                       | <ul> <li>Temporary acoustic shed will be designed to optimise reduce travel distances of vehicles. This include<br/>reduce travel time of truck and dogs within the construction ancillary facility.</li> </ul> |
| C4 and C5 | Shared cycle and pedestrian<br>pathways construction<br>ancillary facilities (C4 and C5) | No activities or works are proposed d | uring Stage 1: Preliminary construction, to be updated prior to works commencing in 2023.   |
| C6        | Princes Highway construction<br>ancillary facility (C6)                                  | No activities or works are proposed d | uring Stage 1: Preliminary construction, to be updated for Stage 2 Construction.  |
| -         | Permanent Power Supply   | No activities or works are proposed d | uring Stage 1: Preliminary construction, to be updated prior to commencing works in late 2022.  |

## of materials. This will include allocating

ludes positioning the temporary acoustic shed to

# **Appendix A Site Environment Plans**



Site Environment Plan - Arncliffe (SEMP).mxd Filename

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Environment Area

oordinator

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|               | Procedures  |   |  |  |  |
|---------------|---|---|--|--|--|
| W. J. B. S.   | Traffic and Access Management Procedure M6S1-CGU-<br>NWW-ENPE-PRO-000418  |   |  |  |  |
| attender of a | Flora and Fauna   | Clearing and Grubbing<br>Procedure                |  |  |  |
| John Martin   | Management<br>Procedure M6S1-   | Fauna Handling Procedure                          |  |  |  |
| A month       | CGU-NWW-ENPE-   | Weed Management Procedure                         |  |  |  |
|               | PRO-000419  | Green and Golden Bell Frog<br>Stop Work Procedure |  |  |  |
|               | Heritage Management<br>Plan M6S1-CGU-   | Unexpected Heritage Finds<br>Procedure            |  |  |  |
| S. Marse      | NWW-ENPE-PRO-<br>000420<br>Soil and Surface Water<br>Management<br>Procedure M6S1-<br>CGU-NWW-ENPE-<br>PRO-000421 | Unexpected Find of Human<br>Remains Procedure     |  |  |  |
| Lincons       |   | Erosion and Sediment Control<br>Procedure         |  |  |  |
| Martin M      |   | Water Reuse and Discharge<br>Procedure            |  |  |  |
|               |   | Stockpile Management<br>Procedure                 |  |  |  |
|               |   | Spill Management Procedure                        |  |  |  |
|               | CEMP Sub-plans  |   |  |  |  |
| Se We         | Noise and Vibration Preliminary CEMP Sub-plan and<br>CNVIS M6S1-CGU-NWW-ENNV-PLN-000403                           |   |  |  |  |
|               | Air Quality and Odour CEMP Sub-plan<br>M6S1-CGU-NWW-ENPE-PLN-000407   |   |  |  |  |
| ground Adit   | Contamination CEMP Su<br>M6S1-CGU-NWW-ENPE  | ıb-plan   |  |  |  |
| E Loin        | Waste CEMP Sub-plan<br>M6S1-CGU-NWW-ENPE-PLN-000414   |   |  |  |  |

Existing Stockpile

| Ø | ☆       | Proposed Licensed Discharge Point | Acoustic/Shaft Shed |
|---|---------|-----------------------------------|---------------------|
|   | $\land$ | Spill Kit                         | Haul Road           |
|   |         | Deed and Contract Boundary        | Sediment Pond       |
|   |         | Noise Catchment Area              | Site Offices        |
|   |         | Eve St Compound                   | Stockpile           |
|   |         | RTA Frog Habitat                  | WTP                 |
|   |         | No Go Zone                        | Workshop            |
|   |         | Local Environmental Plan Heritage |                     |

# **Site Environment Plan**

# Arncliffe (C1)

Document Number

## SEP Scope and Timeframe

#### This SEP work scope is:

- Install & repair environmental controls.
- Upgrade & refurbishment of offices.
- Assessment & refurbishment to services & existing plant/equipment/infrastructure. •
- Assessment & repair of existing M8 access structures (dives, shaft and adits). •

| Key Potential Environmental Impacts  |   |  |  |  |
|--|---|--|--|--|
| <ul> <li>Air quality risks</li> <li>Minor noise and vibration</li> <li>Soil and water pollution</li> </ul> | <ul> <li>Presence of<br/>vehicles and<br/>trucks on site</li> </ul> |  |  |  |
|  |   |  |  |  |

| Applicable Environmental<br>Work Permits            | Responsibility |
|---|----------------|
| Permit to Enter No Go Zone<br>(GGBF Exclusion Zone) | All            |
| Permit to Dewater                                   | All            |
| Out of Hours Work Permit                            | All            |

| Soil and Water   |                |  |  |
|--|----------------|--|--|
| Key Management Measures  | Responsibility |  |  |
| Erosion and sediment controls<br>are to be inspected and<br>improvements or rectifications<br>carried out.   | Supervisor     |  |  |
| No works are to be undertaken outside of the site boundary.  | All            |  |  |
| Stockpile to be remain stabilised when not active.   | Supervisor     |  |  |
| Treated water from construction<br>WTP to be used as primary<br>water source (for dust<br>suppression).  | All            |  |  |
| Provide and use concrete<br>washout facilities.<br>Isolate washout to prevent<br>surface water from entering<br>washout.<br>Washout must be bunded, lined<br>and maintained. | Supervisor     |  |  |
| Any material produced from<br>rectification and upgrading<br>activities is to be stored in<br>existing acoustic shed.  | Supervisor     |  |  |
| Vehicles are to use wheel wash before exiting site.  | All            |  |  |

| Waste  |                |
|--|----------------|
| Key Management Measures  | Responsibility |
| All wastes shall be segregated,<br>stored, classified, tracked,<br>transported and treated in<br>accordance with Waste<br>Management CEMP Sub-plan | Supervisor     |

| waste for recycling and use facilities provided.  | All            |  |
|---|----------------|--|
| Air Quality & Dus   | <b>\</b>       |  |
| Key Management Measures   | Responsibility |  |
| Notify supervisor if dust/air<br>quality issues are observed.<br>Dust is to be managed via the<br>use of water and stabilisation<br>products. | All            |  |
| Wheel wash to be installed and<br>maintained.<br>Sweepers shall be used to clean<br>public roads where mud has<br>been deposited.             | Supervisor     |  |
| Effective dust suppression will<br>be in place for known dust<br>generating activities like rock<br>hammering and concrete<br>sawing.         | All            |  |

All

All personnel are to separate

| Flora, Fauna and W<br>Key Management Measures   | Responsibility |
|---|----------------|
| No vegetation clearing or<br>pruning will occur during work<br>activities.  | Supervisor     |
| Notify supervisor or<br>Environmental Coordinator if<br>injured wildlife is sighted.  | All            |
| No works are to occur within<br>Green and Golden Bell Frog No<br>Go Zone (Kogarah Golf Course<br>and Eve Street Habitat). Entry<br>only by authorised personnel.<br>Contact Environmental<br>Coordinator. | All            |
| If a Green and Golden Bell Frog<br>is identified on site, works are to<br>stop in the immediate vicinity.<br>Contact Environmental<br>Coordinator immediately.  | All            |
| Ensure lighting onsite is directed away from frog habitat.  | All            |

| If a bone is discovered that may<br>be a suspected human remains<br>item, work must cease in the   | All              | No access to site from Flora Street.   | upervisor                  |
|--|------------------|--|----------------------------|
| vicinity immediately. Notify and   |                  |  |                            |
| the Supervisor and<br>Environmental Coordinator.<br>Work can only resume following<br>approval from the project<br>Environmental Coordinator.      |                  |  | esponsibility<br>upervisor |
|  |                  | 3. Inspect waste management  |                            |
| Contaminated La  | nd               | practices  |                            |
| Key Management Measures  | Responsibility   | ,  | nvironmental               |
| Stop work if contaminated<br>materials are discovered or<br>suspected and notify Supervisor<br>and Environmental Coordinator<br>immediately.       | All              | <ul> <li>sediment controls</li> <li>Inspect dust emissions &amp; controls</li> <li>Inspect waste management practices</li> </ul>     | oordinator                 |
| The movement of materials shall<br>be tracked via the Materials<br>Tracking Form.  | Project Engineer | 4. Inspect No Go Zones         Immediately Notify Supervisor of:         • Environmental incidents,         • Spills,                | II                         |
|  |                  | <ul> <li>Unexpected finds of<br/>ASS/PASS, heritage or</li> </ul>  |                            |
| Acid Sulphate Soils  | (ASS)            | contaminated soils,  |                            |
| Key Management Measures  | Responsibility   | Encroachment into No Go  |                            |
| If PASS is excavated during<br>rectification and upgrading<br>activities, it is to be stockpiled in<br>a bunded area fitted with a guard<br>layer. | Supervisor       | <ul> <li>Zones,</li> <li>Risk or damage to native flora/fauna,</li> <li>Dust/air pollution, and</li> <li>Water pollution.</li> </ul> |                            |
| PASS/ASS Material must be  | Project          | Points of Contact  |                            |
| classified and SPOCAS testing<br>performed. Lime must be applied<br>to the material in accordance<br>with this test and tested to                  | Engineer         | Superintendent   |                            |

|   | Noise and Vibrat   | ion                           |  | 11                  | Tracking Form.   |                                  |  |  |
|---|--|-------------------------------|--|---------------------|--|----------------------------------|--|--|
|   | Key Management Measures  | Responsibility                | Hazardous Materi   | Hazardous Materials |  | Acid Sulphate Soils (ASS)        |  |  |
| _ | Keep noisy equipment away  | All                           | Key Management Measures  | Responsibility      | Key Management Measures  | Responsibil                      |  |  |
|   | from sensitive receivers<br>Ensure all equipment is well<br>maintained and is not making   |                               | Store and handle hazardous substances in accordance with the SDS.  | All                 | If PASS is excavated during<br>rectification and upgrading<br>activities, it is to be stockpiled in  | Supervisor                       |  |  |
|   | excessive noise  |                               | Hazardous substances must be stored in a bunded area with a  | All                 | a bunded area fitted with a guard layer.   | d<br>Project<br>Engineer         |  |  |
| _ | Turn off machinery when not in use   |                               | 110% of the largest container<br>within the bund or 25% of the   |                     | PASS/ASS Material must be<br>classified and SPOCAS testing<br>performed. Lime must be applied  |                                  |  |  |
|   | Noise mitigation measures will<br>be installed as per CNVIS prior<br>to activity commencing.   |                               | total capacity of all containers<br>within it, whichever is the<br>greatest.   | Superviser          | to the material in accordance<br>with this test and tested to<br>confirm it has been sufficiently  |                                  |  |  |
|   |  |                               | Spill kits are located adjacent to<br>all hazardous substance storage<br>units, in refuelling and                          | Supervisor          | neutralized.<br>Communicate known areas of   | Inductor                         |  |  |
|   | Hours of Work  |                               | maintenance areas and at<br>designated locations. Refer to<br>SEP Map.   |                     | ASS/PASS via the induction,<br>toolbox talks, pre starts, mud<br>maps and Site Environmental<br>Plans.   | Supervisor                       |  |  |
|   | Standard Construction Hours  |                               | Refuelling to occur at designated  | Supervisor          | Minimize disturbance to ASS/PASS areas.  | Supervisor<br>Project<br>Manager |  |  |
|   | Monday – Friday: 7am to 6pm<br>Saturday: 7am to 6pm  |                               | refuelling area (when<br>commissioned) unless<br>equipment and plant are located   |                     |  |                                  |  |  |
|   | No work shall be carried out on S<br>holidays.   |                               | underground.   |                     | Track ASS/PASS materials handling and movement.  | Project<br>Engineer              |  |  |
| _ | High impact activities   | bours                         | Heritage   |                     |  |                                  |  |  |
|   | Monday - Friday: 8am   |                               | Key Management Measures  | Responsibility      | Community and Visual   | Amenity                          |  |  |
|   | Saturday: 8am to 1   | •                             | If a Heritage object is discovered   | Supervisor          | Key Management Measures  | Responsibil                      |  |  |
| / | Sunday and public holidays: no<br>All activities to occur in 3-hour bl   | works permitted               | that may be a suspected<br>heritage item, work must cease<br>in the vicinity immediately. Notify<br>and the Supervisor and |                     | Graffiti on hoarding of compound<br>visible to community members<br>must be removed promptly   | Supervisor                       |  |  |
|   | respite during which no other high impact activities<br>are to occur.<br>All works which need to occur outside these hours                         |                               | Environmental Coordinator.<br>Work can only resume following<br>approval from the project                                  |                     | The Project name and DPIE<br>number must remain visible at   | Supervisor                       |  |  |
|   | must be approved from the CGU I<br>Community team under an <b>Out of</b><br><b>Permit</b> . Please contact the Super<br>Environmental Coordinator. | Environment and<br>Hours Work | Environmental Coordinator.   |                     | entry point to compound.<br>Light spill to be monitored<br>regularly to ensure adjacent<br>receivers are not being impacted<br>by compound lighting. | Environmenta<br>Coordinator      |  |  |
|   |  |                               |  |                     |  |                                  |  |  |

# Title: Site Environment Plan ID: MSID-4-247 Version: 3.0 Date Published: 21/10/2016 M6 Stage 1 / M6S1 - Uncontrolled Document when Printed





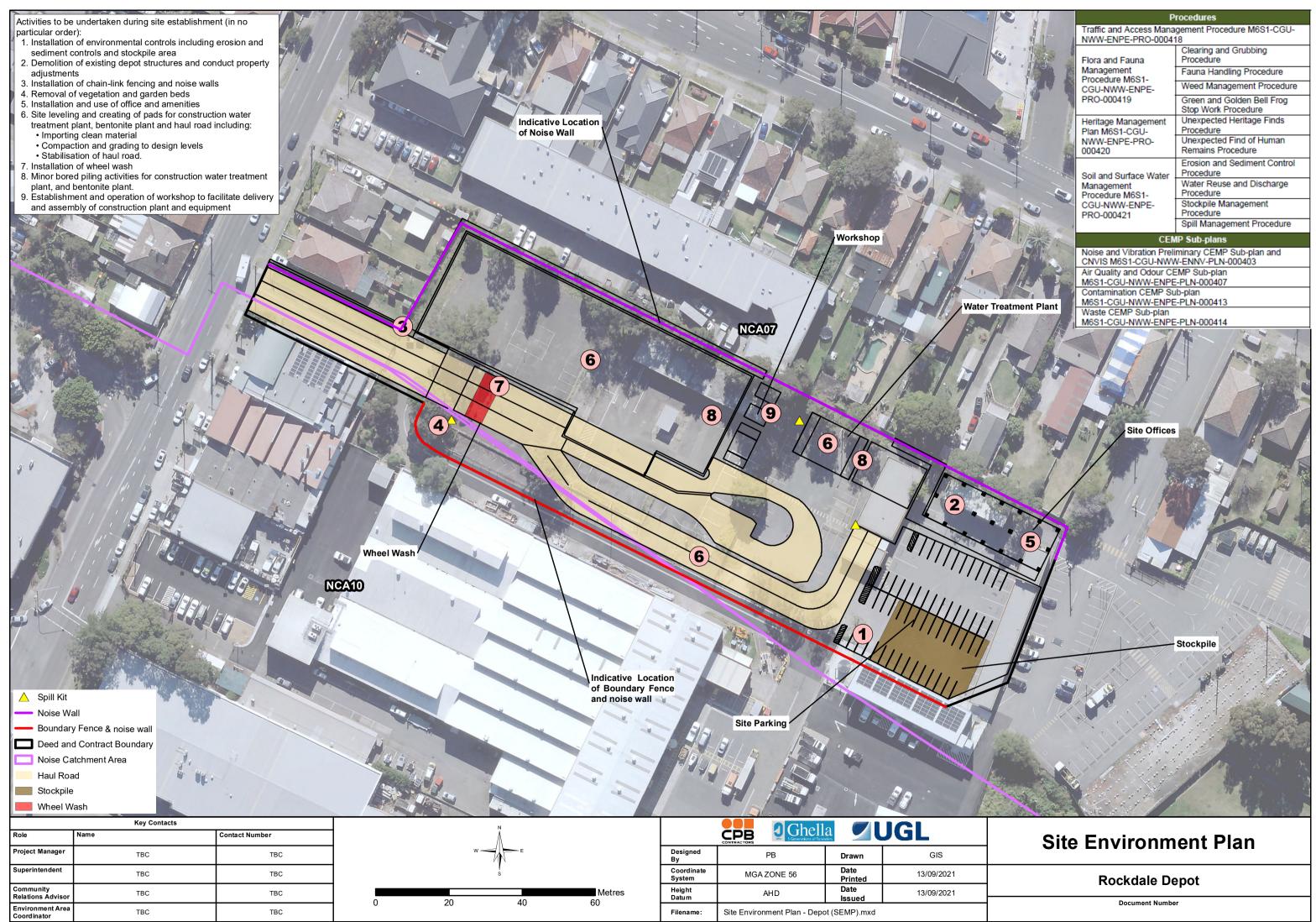


|  | Superintendent               |   |
|--|------------------------------|---|
|  | Environment<br>Coordinator   |   |
|  | Project Community<br>Hotline | 1800 789 297                                  |
|  | Safety                       | To be advised and written in<br>each prestart |

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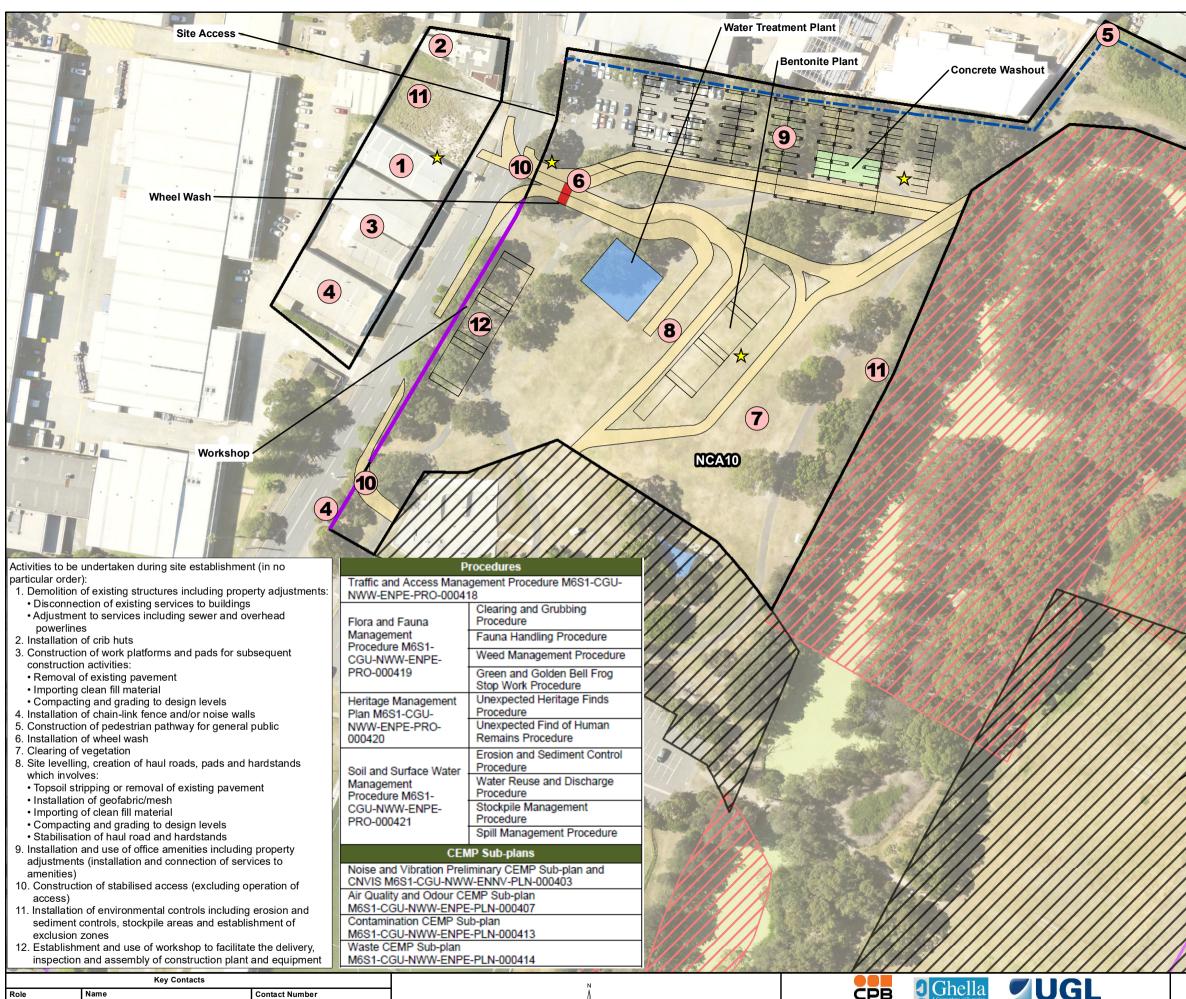
| SEP Scope and Time<br><u>This SEP work scope is:</u><br>Install environmental con<br>Demolition of existing De                     | trols.            | All personnel are to separate<br>waste for recycling and use<br>facilities provided.   | All                   | All works which need to occur outs<br>must be approved from the CGU B<br>Community team under an Out of<br>Permit. Please contact the Superin | Environment and<br>Hours Work |  | CONTRACTOR          |  |                              |
|--|-------------------|--|-----------------------|---|-------------------------------|--|---------------------|--|------------------------------|
| Removal of vegetation (n   | •                 |  | <b>at</b>             | Environmental Coordinator.  |                               | Work can only resume following<br>approval from the project  |                     | Community and Visual   | _                            |
| Installation of offices and  | cribs             | Air Quality & Du   |                       | Flora, Fauna and W  |                               | Environmental Coordinator.   |                     | Key Management Measures  | Responsibility               |
| <ul> <li>Service connections</li> <li>Minor levelling of site</li> </ul>   |                   | Key Management Measures<br>Notify supervisor if dust/air<br>quality issues are observed.   | Responsibility<br>All | Key Management Measures<br>Prior to any disturbance, clearing   | Responsibility<br>Supervisor  | If a bone is discovered that may<br>be a suspected human remains   | All                 | Graffiti on hoarding of compound<br>visible to community members<br>must be removed promptly.                            | Supervisor                   |
| <ul> <li>Installation of plant and e<br/>including WTP</li> <li>Creation of working platfor<br/>subsequent construction</li> </ul> | orms and pads for | Dust is to be managed via the use of water and stabilisation products.   |                       | or grubbing activities the<br>following must be in place;<br>• Trees flagged for removal<br>are approved by DPIE under                        |                               | item, work must cease in the<br>vicinity immediately. Notify and<br>the Supervisor and<br>Environmental Coordinator.<br>Work can only resume following |                     | The Project name and DPIE<br>number must remain visible at<br>entry point to compound.                                   | Supervisor                   |
| <ul> <li>Key Potential Environmer</li> <li>Noise and vibration</li> <li>Poor air quality</li> </ul>                                | ntal Impacts      | Stabilised access including<br>rumble grids or wheel washes<br>will be established for the site<br>exits to minimise mud on public<br>roads. | Supervisor            | <ul> <li>Tree Report</li> <li>G40 Hold Point Release of<br/>Cleaning and Grubbing Plan</li> <li>Permit to Clear Land or</li> </ul>            |                               | approval from the project<br>Environmental Coordinator.  |                     | Light spill to be monitored<br>regularly to ensure adjacent<br>receivers are not being impacted<br>by compound lighting. | Environmental<br>Coordinator |
| <ul> <li>Soil and water pollution</li> </ul>   |                   | Sweepers shall be used to clean  |                       | Vegetation is in place.   |                               | Contaminated La  | nd                  | Access to site only from West  | Supervisor                   |
| Unexpected finds of: PASS, 0   | Contaminated      | public roads where mud has   |                       | If applicable, <b>No-go Zones</b> for significant flora and   |                               | Key Management Measures  | Responsibility      | Botany Street.   |                              |
| soils and heritage items   |                   | been deposited.  |                       | fauna must be established,  |                               | Stop work if contaminated  | All                 | Evaluating Performance   | Responsibility               |
| <ul> <li>Weeds</li> <li>Incorrect waste disposal</li> <li>Spills resulting in water or soi</li> </ul>                              | l contamination   | Effective dust suppression will<br>be in place for known dust<br>generating activities like rock<br>hammering and concrete                   | All                   | <ul> <li>fenced/flagged and sign<br/>posted prior to<br/>commencement of clearing.</li> <li>Pre-clearing Survey has</li> </ul>                |                               | materials are discovered or<br>suspected and notify Supervisor<br>and Environmental Coordinator<br>immediately.  |                     | Daily<br>1. Inspect erosion and<br>sediment controls<br>2. Inspect dust emissions &                                      | Supervisor                   |
| Applicable Environmental   | Responsibility    | sawing.  |                       | been conducted.   |                               | Testing of material (to classify   | Project Engineer    | controls   |                              |
| Work Permits   | Current di        | Noise and Vibration  |                       | Notify Supervisor or  | All                           | material) will conducted by a trained and competent person.  |                     | 3. Inspect waste management<br>practices   |                              |
| Permit to Clear Land or<br>Vegetation  | Supervisor        |  | <b>B</b>              | Environmental Coordinator if<br>injured wildlife is sighted.  |                               | shall be conducted to classify   |                     | Weekly   | Environmental                |
| Permit to Enter No Go Zone   | All               | Key Management Measures  | Responsibility        | Weeds are segregated from   | All                           | material prior to it leaving site.   |                     | 1. Inspect erosion and<br>sediment controls  | Coordinator                  |
| Permit to Dewater  | All               | from sensitive receivers.  | All                   | vegetation that will be mulched<br>where practicable.   |                               | The movement of materials shall<br>be tracked via the Materials<br>Tracking Form.  | Project Engineer    | 2. Inspect dust emissions & controls   |                              |
| Out of Standard Hours Work<br>Permit   | All               | The use of noise barriers for mobile equipment for generators  |                       |   |                               | Hacking Form.  |                     | 3. Inspect waste management<br>practices   |                              |
| Fernit   |                   | / compressors are to be used to  |                       | Hazardous Materi  | als                           | Water runoff from contaminated   | Supervisor          | 4. Inspect No Go Zones and   |                              |
| Soil and Wate  | r                 | reduce noise impacts.  | -                     | Key Management Measures   | Responsibility                | land and stockpiles must be  |                     | associated protection<br>flagging/fencing  |                              |
| Key Management Measures  |                   | All stationary plant to be situated  |                       | Store and handle hazardous  | All                           | contained, treated or disposed<br>to ensure there is no pollution of   |                     | Immediately notify Supervisor of:  | All                          |
| Erosion and sediment controls  | Supervisor        | as far as possible from residents.   |                       | substances in accordance with   |                               | land or waterways.   |                     | <ul><li>Environmental incidents</li><li>Spills</li></ul>   |                              |
| are to be installed prior to or  | Cuporvisor        | Ensure all equipment is well   |                       | the SDS.  |                               | Acid Sulphate Soils  |                     | <ul> <li>Opins</li> <li>Unexpected finds of</li> </ul>   |                              |
| immediately upon any disturbance to vegetation or soil   |                   | maintained and is not making   |                       | Hazardous substances must be  | All                           |  |                     | ASS/PASS, heritage or  |                              |
| as per ESCP.   |                   | excessive noise.   |                       | stored in a bunded area with a<br>minimum holding capacity of   |                               | Key Management Measures  | Responsibility      | <ul><li>contaminated soils</li><li>Encroachment into No Go</li></ul>   |                              |
| Minimise ground disturbance.   | Supervisor        | Turn off machinery when not in use   |                       | 110% of the largest container   |                               | If PASS is excavated during<br>rectification and upgrading   | Supervisor          | Zones  |                              |
| Locate stockpile materials away  | Supervisor        | Noise mitigation measures will   | Quanamiaan            | within the bund or 25% of the total capacity of all containers  |                               | activities, it is to be stockpiled in  |                     | <ul> <li>Risk or damage to native<br/>flora/fauna</li> </ul>   |                              |
| from concentrated flow paths.  |                   | be installed as per CNVIS prior  | Supervisor            | within it, whichever is the   |                               | a bunded area fitted with a guard layer.   |                     | Dust/air pollution   |                              |
| Maximise water reuse.  | All               | to activity commencing.  |                       | greatest.   | Supervisor                    | PASS/ASS Material must be  | Project             | Water pollution  |                              |
| Provide and use concrete   | Supervisor        | Hours of Work  |                       | Spill kits are located adjacent to all hazardous substance storage  | Supervisor                    | classified and SPOCAS testing<br>performed. Lime must be applied   | Engineer            | Points of Contact  |                              |
| washout facilities.<br>Isolate washout to prevent  |                   | Standard Construction  | n hours               | units, in refuelling and maintenance areas and at   |                               | to the material in accordance  |                     | Superintendent<br>Environment  |                              |
| surface water from entering washout.   |                   | Monday – Friday: 7am<br>Saturday: 7am to 6   |                       | designated locations Refer to<br>SEP map.   |                               | with this test and tested to confirm it has been sufficiently neutralized.   |                     | Coordinator<br>Project Community 1800 789 2  | 297                          |
| Washout must be bunded, lined and maintained.  |                   | No work shall be carried out on S<br>holidays.   | Sundays, or public    | Refuelling activities must occur<br>with drip tray and have a spill kit   | Supervisor                    | Communicate known areas of ASS/PASS via the induction.   | Inductor            | Hotline<br>Safety To be advi<br>each prest   | sed and written in<br>art    |
| No dewatering off site   | All               | High impact activities   | s hours               | readily available.  |                               | toolbox talks, mud maps, pre   | Supervisor          |  |                              |
| Waste  |                   |  |                       |   |                               | starts and Site Environmental<br>Plans.  |                     |  |                              |
| Key Management Measures  | Responsibility    | Monday - Friday: 8am   |                       | Heritage  |                               | Avoid excavation of site unless  | Supervisor          |  |                              |
| All wastes shall be segregated, stored, classified, tracked,   | Supervisor        | Saturday: 8am to 1<br>Sunday and public holidays: no   |                       | Key Management Measures   | Responsibility<br>All         | absolutely necessary to minimise<br>disturbance to ASS/PASS areas  |                     |  |                              |
| transported and treated in accordance with Waste CEMP Sub-plan   |                   | All activities to occur in 3-hour bl<br>respite during which no other hig  |                       | that may be a suspected<br>heritage item, work must cease<br>in the vicinity immediately. Notify  |                               | Track ASS/PASS materials handling and movement.  | Project<br>Engineer |  |                              |
| L .  | 1                 | are to occur.  |                       | and the Supervisor and<br>Environmental Coordinator.  |                               |  |                     |  |                              |

**Title:** Site Environment Plan **ID:** MSID-4-247 Version: 3.0 **Date Published:** 21/10/2016 M6 Stage 1 / M6S1 - Uncontrolled Document when Printed

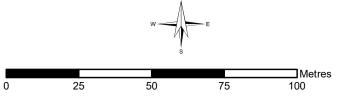








| Role                            | Name | Contact Number |
|---------------------------------|------|----------------|
| Project Manager                 | TBC  | ТВС            |
| Superintendent                  | TBC  | ТВС            |
| Community<br>Relations Advisor  | ТВС  | TBC            |
| Environment Area<br>Coordinator | TBC  | ТВС            |



|                      | CONTRACTORS  |                 | JGL        |   |  |  |
|----------------------|--|-----------------|------------|---|--|--|
| Designed<br>By       | PB   | Drawn           | GIS        |   |  |  |
| Coordinate<br>System | MGA ZONE 56  | Date<br>Printed | 13/08/2021 |   |  |  |
| Height<br>Datum      | AHD  | Date<br>Issued  | 13/08/2021 | _ |  |  |
| Filename:            | Site Environment Plan - Bicentennial Park (SEMP).mxd |                 |            |   |  |  |

NCA08

(11)

#### Brighton-Le-Sands Public School

#### NCA09

| 111111 |   | Dada                                  |
|--------|---|---------------------------------------|
| 11/11  |   |                                       |
| 1///   | ☆ | Spill Kit                             |
| ////   |   | Indicative School Access Path         |
|        | - | Noise Wall                            |
| 1///   |   | Work Area for Activities              |
| 11/1   |   | Noise Catchment Area                  |
| 1/1    |   | Brighton-Le-Sands Public School       |
|        |   | Site Access: 1st Feb 2022             |
| 11 5   |   | No-Go Zone: Vegetation Exclusion Zone |
| In     |   | Haul Road                             |
| 1      |   | Water Treatment Plant                 |
| 1 300  |   | Concrete Washout                      |
|        |   | Wheel Wash                            |

## Site Environment Plan

#### **Bicentennial Park (C3)**

**Document Number** 

|   | SEP Scope and Time<br>This SEP work scope is: | frame  | All personnel are to separate waste for recycling and use | All                | Permit. Please contact the Superin Environmental Coordinator. | ntendent and   |                                  |                  | <b>1</b> Challa             |             |              |
|---|---|--|---|--------------------|---|----------------|----------------------------------|------------------|-----------------------------|-------------|--------------|
| - Discontrant reaction and relations an   | -   |  | facilities provided.                                      |                    | Flora, Fauna and W  | eeds           |                                  | CPE              | B Generations of Tunnelers  |             | GL           |
| - Decision of and existing of a sector of a decision of a   | Demolition of existing structures             | at MOC3.                                     | Air Quality & Du  | st                 | Key Management Measures                                       | Responsibility | approval from the project        |                  |                             |             |              |
|   | Disconnection and adjustment o                | f existing services.                         | -   |                    |   |                |                                  |                  |                             |             | upervisor    |
| - Particle of basis of the second of the se   | <b>č</b> (                                    | . ,  |   | Responsibility     |   |                |                                  | All              |                             |             |              |
| - Solitary defaults and solitary defaults and solitary and solitary defaults and so   | 0.  | d cribs.                                     |   | All                |   |                |                                  | / ui             | a bunded area fitted with   | a guard     |              |
| - Consistency of conversion and con   |   |  |   | , ui               |   |                | item, work must cease in the     |                  |                             |             |              |
| Ansame of a registration of a r   | 0   |  |   |                    |   |                |                                  |                  |                             |             |              |
| Constrained Environmental Improvemental Environmental Environmentente Environmental Environmental Environmental Environ   |   |  |   |                    |   |                |                                  |                  | <u> </u>                    | d Vieual Am | opity        |
| Lose placetail Environmental impacts     Mark and structure  |   |  | Stabilised access including                               |                    |   |                |                                  |                  |                             |             |              |
| <ul> <li>Nor and valuation</li> <li>Nor and valuation</li> <li>Soli and value polation</li> <li>Soli and value polation<!--</td--><td>Kev Potential Environmen</td><td>tal Impacts</td><td>rumble grids or wheel washes</td><td>Supervisor</td><td></td><td></td><td></td><td></td><td></td><td>0.</td><td>-</td></li></ul> | Kev Potential Environmen                      | tal Impacts                                  | rumble grids or wheel washes                              | Supervisor         |   |                |                                  |                  |                             | 0.          | -            |
| <td< td=""><td></td><td>•</td><td></td><td></td><td>Vegetation is in place.</td><td></td><td></td><td></td><td></td><td>cilities 5u</td><td>Ipervisor</td></td<>  |   | •  |   |                    | Vegetation is in place.                                       |                |                                  |                  |                             | cilities 5u | Ipervisor    |
| Sol and house particular     Solution that and particular     Solution     Solutio   |   |  |   |                    |   |                | Contaminated La                  | nd               | to be maintained.           |             |              |
|   | Soil and water pollution                      |  | Sweepers shall be used to clean                           |                    |   |                | Key Management Measures          | Responsibility   |                             |             | upervisor    |
| Solit and manufact lands         Solit and solit and dataset and data and datanand datanandata and data and data and data and datanandata and   |   | Contaminated                                 | public roads where mud has                                |                    |   |                |                                  | All              |                             |             |              |
| - boords have disposed     - boords     - boords     - boords     - boords     - boords     - boo   | C C   |  | been deposited.   |                    | posted prior to   |                |                                  |                  |                             | ed          |              |
|   |   |  |   | All                | 0   |                |                                  |                  | 1 1 2                       | SUE SU      | Inervisor    |
| otherwaterial constraint of the constraint  |   |  |   |                    | <b>.</b>  |                |                                  |                  |                             |             | iper visor   |
| Applicable Environmental Responsibility         All and the subject of the subj  |   |  |   |                    |   |                | Testing of material (to classify | Project Engineer |                             | no ut       |              |
| Applicable Environmental<br>Notes         Responsibility<br>and available Environmental<br>Notes         Number of the sequence<br>of the sequence<br>sequence<br>interaction         Number of the sequence<br>interaction         Number of the<br>sequence<br>interaction         Numin<br>sequen   |   |  |   |                    |   | All            | material) will conducted by a    |                  | Light spill to be monitored | ı En        | nvironmental |
| Number default         Key Kanagement Massures         Responsibility         Market and provide bit leaving and provide bit  |   | Responsibility                               | Noise and Vibrati   | on                 |   |                |                                  |                  | regularly to ensure adjace  | ent Co      | oordinator   |
| Permit Descalation or Supported         Noting of supported         Permit Case Journal of Link of Supported Suppor   |   |  |   |                    |   | ΔΙΙ            |                                  |                  |                             | npacted     |              |
| Vigualization         Notice State         All         Notice State   |   | Supervisor                                   |   |                    |   | All            |                                  | Project Engineer |                             |             |              |
| Parmit to Entry No Go Zon         All           Permit to Entry No Go Zon         All           Out of Standard Hours Work         All           Solit and Ware         All           Solit and Ware         All           Solit and Ware         All Eationapp Into to be distanding           Solit and Ware         All Eationapp Into Eating Solit and Ware           Solit and Ware         All Eationapp Into Eating Solit All Ware           Regression and solitation (the suppension for suppension Solitation of the suppension for suppension Solitation of the suppension for suppension Solitation (the suppension for suppension Solitation (the suppension for suppension Solitation of the suppension for suppension Solitation (the suppension for suppension for suppension for suppension Solitation (the suppension for s  |   |  |   | All                |   |                |                                  |                  |                             |             |              |
| Permit Downsfor         All         noble equipment for generators<br>and viscors         Permit Downsfor         All         Permit Downsfor         Permi D   | Permit to Enter No Go Zone                    | All  |   | -                  | All plant are to remain on haul                               | All            |                                  |                  | 5                           |             |              |
| Out of Standard Hours Work       All       Indianal dockplex must be docked in the indicence in the must be appended.       Indianal dockplex must be docked in the indicence in the must be appended.       Indianal dockplex must be docked in the indicence in the must be appended.       Indianal dockplex must be docked in the indicence in the must be appended.       Indianal dockplex must be docked in the indicence in the must be appended.       Indianal dockplex must be docked in the indicence in the must be appended.       Indianal dockplex must be docked in the indicence in the inditence in the indicence in the indicence in t   | Permit to Dewater                             | All  |   |                    |   |                | Water runoff from contaminated   | Supervisor       |                             |             |              |
| Permit     Induce on the impacts.     Induce on the impacts.     Lighting on the basis     All       Key Management Measures     Responsibility     A lataincreg transfer in a possible from residues.     All       Lighting on and sediment controls.     Supervisor     Supervisor     Ensure all equipment is well maintaide and is not making       Minimise ground disturbance.     Supervisor     Supervisor     All     All       Minimise ground disturbance.     Supervisor     Tim methicing view on the indication.     All       Maximum view for materials wavel management is well maintaide and is not making     Supervisor     All       Tim on a continent is well maintaide and is not making     Supervisor     All       Maximum view for materials wavel management is well maintaide and is not making     Supervisor       Tim on a continent is well maintaide and is not making     Supervisor       Noise mitigation measures will be based.     Supervisor       Maximum view for materials wavel management is well maintained.     Supervisor       Maximum view for materials wavel management is well maintained.     Supervisor       Maximum view for materials wavel management is well maintained.     Supervisor       Maximum view for materials wavel management is well maintained.     Supervisor       Maximum view for materials wavel management is well maintained.     Supervisor        Maximum view for materials wavel management is well ma  | Out of Standard Hours Work                    | All  | / compressors are to be used to                           |                    | minimise damage to vegetation.                                |                | land and stockpiles must be      |                  |                             | ns &        |              |
| Soil and Water     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as far as possible from<br>endients.     All statutionary plant to be situated<br>as possible from<br>endients.     All statutionary<br>plant to be situated<br>as possible from<br>endients.     All statutionary<br>plant to be situated<br>as possible from<br>endients.     All statutionary<br>plant to be situated<br>as possible from<br>endients.     All statutes<br>as possible from<br>endients.     All statutes<br>as possible from<br>endients.     All statutes<br>as possible from<br>endients.     No endients<br>as possible from<br>endients.     All statutes<br>as possible from<br>endients.     No endients<br>as possible   |   |  | reduce noise impacts.                                     |                    |   | All            |                                  |                  |                             | gement      |              |
| Key Management Measures       Responsibility       all ar a possible from readonts.       Hazardous Materials       All       All       Meadly       Environmental Coordinator         Environmental exclored on the burnded port to or the burnded bur  | Soil and Water                                |  | All stationary plant to be situated                       |                    |   |                |                                  |                  |                             | ,           |              |
| Instruction         Supervisor         Instruction         Supervisor         Supervisor         Supervisor         All           Minimise ground disturbance void<br>as per ESCP.         Supervisor         All   | Key Management Measures                       | Responsibility                               |   |                    | Hazardous Materi  | als            | ,                                | A !!             | Weekly                      |             | nvironmontal |
| Supervisor       Supervisor <td></td> <td></td> <td>residents.</td> <td></td> <td>Key Management Measures</td> <td>Responsibility</td> <td></td> <td>All</td> <td></td> <td></td> <td></td>   |   |  | residents.  |                    | Key Management Measures                                       | Responsibility |                                  | All              |                             |             |              |
| immediately upon any<br>distributed to yopation or soll     and Environmenial Coordinator<br>instance data and is not making<br>excessive noise.     immediately upon any<br>excessive noise.     and Environmenial Coordinator<br>instance data and is not making<br>excessive noise.     immediately upon any<br>excessive noise.     immediately upon any<br>excessive noise.     immediately upon any<br>excessive noise.     immediately upon<br>any from option of the<br>solution and a lead at lead of the<br>use option any<br>from concentrated flow path, out<br>of tree do file and at leads and<br>away from welland.     immediately upon<br>any from option<br>any from welland.     immediately upon<br>any from option<br>any from o  |   | Supervisor                                   | Ensure all equipment is well                              |                    | Store and handle hazardous                                    | All            | suspected and notify Supervisor  |                  | sediment controls           |             |              |
| Minumes or orgenation of all appert SSOP       Supervisor       Turoff machinery when not in use       Turoff machinery when not in use       Turoff machinery when not in use       All       All       All       All       All       All       All       All       All       Supervisor       Supervisor       All       Immediately nettralized as a write an associated protection in abunded area with a minime bunder or 26% of the total capacity of all containers with in the bund or 26% of the total capacity of all contai  | immediately upon any                          |  |   |                    |   |                | _                                |                  |                             | ns &        |              |
| ab part Columnation       Turn off machinery when not in<br>use approxed disturbance.       Supervisor       All       Add Suphato Solis (ASS)       - <td></td> <td></td> <td>excessive noise.</td> <td></td> <td>the SDS.</td> <td></td> <td>· ·</td> <td></td> <td></td> <td>pement</td> <td></td>   |   |  | excessive noise.  |                    | the SDS.  |                | · ·                              |                  |                             | pement      |              |
| Locate stockpile materials away<br>from concentrated flow paths, out<br>of tree drip line and at leasts<br>away from wetland.     Supervisor     Noise mitigation measures will<br>be installed as per CNVIS prior     Supervisor     If PASS is excavated during<br>rectification and upgrading     Supervisor     If PASS is excavated during<br>rectification and upgrading     Supervisor     If PASS is excavated during<br>rectification and upgrading     Immediately notify Supervisor of:<br>a surface area fit as to be stockpile<br>washout.     All       Provide and use concrete<br>washout facilities.<br>Isolate washout facilities.     Supervisor     Maintenance areas and at<br>antenance areas and at<br>washout.     Supervisor     Supervisor     Pass MASS. Material must be<br>classified, tracked,<br>transported and treated in<br>eaccordance with this ter during and<br>maintenance areas and at<br>sourday.     Supervisor     Pass MASS. Material must be<br>classified, tracked,<br>transported and treated in<br>eaccordance with this ter during and<br>maintenance areas and at<br>sourday.     Supervisor     Pass MASS. Material must be<br>classified, tracked, with a low of<br>association and<br>upgrading mer/ormed.     Pass MASS. Material must be<br>classified, tracked, with a low of<br>association and<br>upgrading mer/ormed.     Pass MASS. Material must be<br>classified, tracked, so must be<br>sourday.     Pass MASS. Material must be<br>classified, tracked, so must be<br>sourday.     Pass MASS. Material must be<br>classified, tracked, so must be<br>sourday.     Pass MASS. Material must be<br>classified, tracked, so must be<br>sourday.     Pass MASS. Material must be<br>classified, tracked, so must be<br>sourday.     Maintenance areas and at<br>classified, tracked, so must be<br>sourday.     Maintenance areas and at<br>classified, tracked,<br>transported and treated in<br>accordance  |   |  | -   |                    |   | All            | Acid Sulphate Soils              | (ASS)            | practices                   | -           |              |
| Locate stockpile materials away<br>form concentrated low paths, or path<br>away from welfand.       Supervisor       Noise mingation measures with<br>form concentrated low paths, or path<br>away from welfand.       Noise mingation measures with<br>form concentrated low paths, or path<br>away from welfand.       Noise mingation measures with<br>form concentrated low paths, or path<br>away from welfand.       Noise mingation measures with<br>form concentrated low paths, or paths<br>away from welfand.       Noise mingation measures with<br>form concentrate welfand.       Noise mingation measures with<br>form concentrate welfand.       Noise mingation measures with<br>form concentrate welfand.       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Supervisor       Supervisor       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Supervisor       Noise mingation measures welfand.       Supervisor       Supervisor       Noise mingation measures welfand.   | Minimise ground disturbance.                  | Supervisor                                   |   |                    |   |                | Key Management Measures          | Responsibility   |                             |             |              |
| transconcentrated now paths, out of the drip in saling da gale CWVs pitch and the spaths, out of the drip in spath and the spaths, out of the drip in spath and the spaths, out of the drip in spath and the spat   |   | Supervisor                                   |   | Supervisor         |   |                |                                  | Supervisor       |                             | 1           |              |
| away from wetland.       Image: construction hours       Image: constr  |   |  |   |                    |   |                |                                  |                  | Immediately notify Super-   |             | 11           |
| Maximise water reuse.       All         Provide and use concrete<br>washout facilities.       Supervisor       Supervisor       Supervisor       Supervisor       Split kits are located adjacent to<br>all hazardous substance storage<br>units. in refuelling and<br>maintenance areas and at<br>admaintained.       Supervisor       Project       Project       Project         No work shall be carried out on Sundays, or public<br>holidays.       Monday - Friday: 7am to 6pm<br>Saturday: 7am to 6pm       Supervisor       Supervisor       Supervisor       Project       Project       Project       Encroachment into No Go<br>Zones       Encroachment into No Go<br>Zonachator       Encroachm  |   |  | , ,   |                    |   |                |                                  |                  |                             | ents        |              |
| Market data detected data detected in<br>accordance with Waste<br>Management LEMP Sub-plan       Supervisor       Standard Construction hours       Spill kits are located adjacent to<br>all hazardous substance storage<br>maintenance areas and at<br>designated locations Refer to<br>Saturday: 7am to 6pm<br>No work shall be carried out on Sundays, or public<br>holidays.       Spill kits are located adjacent to<br>all hazardous substance storage<br>maintenance areas and at<br>designated locations Refer to<br>Saturday: 8am to 6pm<br>Saturday: 8am to 6pm<br>Sunday and public holidays: no works permitted<br>All wastes shall be segregated,<br>stored, classified, tracked,<br>transported aut tracked in<br>accordance with Waste<br>Management CEMP Sub-plan       All       Supervisor       Supervisor       Inductor<br>stored, classified, tracked,<br>transported aut tracked in<br>accordance with Waste<br>Management CEMP Sub-plan       Supervisor       Notify<br>all expression       Inductor<br>stored, classified, tracked,<br>transported aut tracked in<br>accordance with Waste<br>Management CEMP Sub-plan       Supervisor       Notify<br>all expression and<br>tracked, transported aut tracked to<br>coordination course       All<br>Monday - Friday: 8am to 6pm<br>Sunday and public holidays: no works permitted<br>are to occur.       All<br>Heritage       All<br>Monday - Friday: 8am to 6pm<br>Sunday and public holidays: no works permitted<br>are to occur.       All<br>Heritage encourse       All<br>Monday - Friday: 8am to 6pm<br>Sunday and public holidays: no works permitted<br>are to occur.       All<br>Heritage encourse       All<br>All       Supervisor       Inductor<br>Supervisor       Supervisor       Distart case<br>tracked,<br>transported aut tracked,<br>transported for the Course with Waste<br>manding and movement.       All       All       All       All       All       Al  | -   | ΔΙΙ  | Hours of Work   |                    | -   |                | layer. It must be treated and    |                  |                             |             |              |
| Notes and use a   |   |  | Standard Construction hours                               |                    | -   | Supervisor     | neutralized.                     |                  | ASS/PASS, heritage          |             |              |
| Isolate washout to prevent<br>surface water from entering<br>washout.       Saturday: 7am to 6pm       Inits, in refuelling and<br>maintenance areas and at<br>designated locations Refer to<br>SEP map.       Supervisor       Engineer       Engineer       No work shall be carried out on Sundays, or public<br>holidays.         Washout must be bunded, lined<br>and maintained.       All       Monday - Friday: 8am to 6pm       Supervisor       Supervisor       Supervisor       Inductor       Supervisor       Intervisor       Inductor       Supervisor       Supervisor       Inductor       Supervisor       Supervisor       Intervisor       Intervisor and<br>transported and traded in<br>accordance with Waste       Supervisor       All       All       All works which need to occur.       All works which need to occur.       All       All       Supervisor       All       All       Supervisor must be approved from the CGU Environment and Environmental       All       All       Supervisor and<br>transported and traded in<br>accordance with Waste       Supervisor and<br>transported and traded in<br>the vicinity immediately. Notify<br>and the Supervisor and<br>the vicinity immediately. Notify<br>and the Supervisor and<br>the Supervisor and       Supervisor and<br>Environmental Coordinator.       Supervisor       Supervisor <td></td> <td>Supervisor</td> <td>Monday – Friday: 7am</td> <td>to 6pm</td> <td>all hazardous substance storage</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |   | Supervisor                                   | Monday – Friday: 7am                                      | to 6pm             | all hazardous substance storage                               |                |                                  |                  |                             |             |              |
| surface water from entering<br>washout.       No work shall be carried out on Sundays, or public<br>holidays.       Mantenance areas and at<br>esignated locations. Refer to<br>SEP map.       Mantenance areas and at<br>esignated locations. Refere to<br>SEP map.       Mantenance areas and at<br>esignated locations. Refer to<br>SEP map.       Mantenance areas and at<br>esignated locations. Refer to<br>SEP map.       Supervisor       Inductor<br>Sep map.       Notex estimate locations. Refer to<br>Sep map.       Supervisor       Notex estimate locations.<br>Notex estimate locations.       Inductor<br>Sep map.       Notex estimate locations.<br>Notex estinth of the inductor<br>sep terisor and<br>set to occ  |   |  |   | •                  |   |                |                                  | Engineer         |                             | NO GO       |              |
| washout.     work shall be sufficiently<br>and maintained.     No work shall be sufficiently<br>and maintained.     with this test and tested to<br>confirm thas been sufficiently<br>neutralized.     with this test and tested to<br>confirm thas been sufficiently<br>neutralized.     with this test and tested to<br>confirm thas been sufficiently<br>neutralized.     No ust/air<br>points of Contact       Washout must be bunded, lined<br>and maintained.     All     Minday - Friday: 8am to 6pm<br>Saturday: 8am to 1pm<br>Sunday and public holidays: no works permitted<br>transported and treated in<br>accordance with Waste<br>Management CEMP Sub-plan     No work shall be segregated,<br>stored, classified, tracked,<br>transported and treated in<br>accordance with Waste<br>Management CEMP Sub-plan     Supervisor     All<br>with this test and tested to<br>confirm thas been sufficiently<br>neutralized.     Inductor<br>Supervisor       Management CEMP Sub-plan     Supervisor     All works which need to occur outside these hours<br>must be approved from the CGU Environment and     Responsibility<br>that may be asuspected<br>heritage item, work must ceases<br>in the vicinity immediately. Notify<br>and the Supervisor and<br>Environment al Coordinator.     All     All     All     All       Management CEMP Sub-plan     All works which need to occur outside these hours<br>must be approved from the CGU Environment and     All work summe and movement.     All on the final movement.     Project       Track ASS/PASS materials     Project     Frack ASS/PASS materials     Project   |   |  |   |                    |   |                |                                  |                  | Risk or damage to n         | ative       |              |
| Washout must be bunded, lined<br>and maintained.     Image: maintained difference<br>and maintained. <thimage: difference<br="" maintained="">and the supervisor and<br/>maint</thimage:>   | washout.                                      |  |   | sundays, or public |   |                |                                  |                  |                             |             |              |
| All maintained.       All       Monday - Friday: 8am to 6pm       with drip tray and have a spill kit readily available.       Industation       Industation       Points of Contact         Waste       Management Measures       Responsibility       Sunday and public holidays: no works permitted       All activities to occur in 3-hour blocks, with 1-hour respite during which no other high impact activities are to occur.       If a Heritage object is discovered that may be a suspected harmy or the vicinity immediately. Notify and the Supervisor and Environment al occur during of mothe CGU Environment and       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       Friday & All       Friday & All       Friday & All       Friday &  |   |  | ,   | -                  | Refuelling activities must occur                              | Supervisor     |                                  |                  |                             |             |              |
| Waste     Saturday: Priday: sam to opin     Heritage       Key Management Measures     Responsibility       All wastes shall be segregated,<br>stransported and treated in<br>accordance with Waste     Supervisor       Management CEMP Sub-plan     Supervisor       All works which need to occur outside these hours<br>must be approved from the CGU Environment and     All works which need to occur outside these hours<br>must be approved from the CGU Environment and  |   |  | High impact activities                                    | shours             |   |                |                                  |                  | Points of Contact           |             |              |
| Waste     Saturday: 8am to 1pm     Heritage       Key Management Measures     Responsibility       All wastes shall be segregated, tracked, transported and treated in accordance with Waste     Supervisor       Management CEMP Sub-plan     All works which need to occur outside these hours must be approved from the CGU Environment and must be approved fr  | No dewatering off site.                       | All  | Monday - Friday: 8am                                      | to 6pm             | readily available.  |                |                                  |                  | Superintendent              |             |              |
| Key Management Measures       Responsibility         All wastes shall be segregated, stored, classified, tracked, transported and treated in accordance with Waste Management CEMP Sub-plan       Supervisor       Supervisor       Key Management Measures       Responsibility       starts and Site Environmental Plans.       Supervisor         All works which need to occur outside these hours must be approved from the CGU Environment and       All works which need to occur outside these hours must be approved from the CGU Environment and       All       All       All       Key Management CeMP Sub-plan       Supervisor       Supervisor       Coordinator       Project Community       1800 789 297         Management CEMP Sub-plan       All works which need to occur outside these hours must be approved from the CGU Environment and       All works which need to occur outside these hours must be approved from the CGU Environment and       All works which need to occur outside these hours must be approved from the CGU Environment and       Project Community       Supervisor       Safety       Safety       Safety       Supervisor         Management CEMP Sub-plan       Key Management Coordinator.       Frack ASS/PASS materials       Project       Supervisor       Safety       Safety <td>Waste</td> <td></td> <td>Saturday: 8am to 1</td> <td>pm</td> <td>Heritage</td> <td></td> <td></td> <td>Supervisor</td> <td>Environment</td> <td></td> <td>+</td>   | Waste   |  | Saturday: 8am to 1  | pm                 | Heritage  |                |                                  | Supervisor       | Environment                 |             | +            |
| All wastes shall be segregated, stored, classified, tracked, transported and treated in accordance with Waste Management CEMP Sub-plan       All activities to occur in 3-hour blocks, with 1-hour respite during which no other high impact activities are to occur.       All Heritage object is discovered that may be a suspected heritage item, work must cease in the vicinity immediately. Notify and the Supervisor and the  | Key Management Measures                       | Responsibility                               | Sunday and public holidays: no                            | works permitted    | Key Management Measures                                       | Responsibility | starts and Site Environmental    |                  | Coordinator                 |             |              |
| stored, classified, tracked, transported and treated in accordance with Waste Management CEMP Sub-plan       respite during which no other high impact activities are to occur.       that may be a suspected heritage item, work must cease in the vicinity immediately. Notify and the Supervisor and the Superv   | All wastes shall be segregated.               | Supervisor                                   |   |                    |   |                | Plans.                           |                  |                             | 300 789 297 |              |
| transported and treated in accordance with Waste Anagement CEMP Sub-plan       are to occur.       heritage item, work must cease in the vicinity immediately. Notify and the Supervisor and the   | stored, classified, tracked,                  |  |   | •                  | that may be a suspected                                       |                |                                  | Supervisor       |                             |             |              |
| Management CEMP Sub-plan       All works which need to occur outside these hours<br>must be approved from the CGU Environment and       and the Supervisor and<br>Environmental Coordinator.       Track ASS/PASS materials<br>handling and movement.       Project<br>Engineer   |   |  |   |                    |   |                |                                  |                  | Jaioty                      |             |              |
| must be approved from the CGU Environment and Environmental Coordinator. Environmental Coordinator. Engineer  |   |  | All works which need to occur out                         | side these hours   |   |                |                                  |                  |                             |             |              |
|   |   | <u>                                     </u> |   |                    | Environmental Coordinator.                                    |                |                                  |                  |                             |             |              |
|   |   |  |   |                    | Work can only resume following                                |                |                                  |                  |                             |             |              |

**Title:** Site Environment Plan **ID:** MSID-4-247 Version: 3.0 **Date Published:** 21/10/2016 M6 Stage 1 / M6S1 - Uncontrolled Document when Printed











# Appendix A5 Document register

M6 Stage 1

October 2021

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#### Table 1: Environmental document register

| Environmental<br>management<br>document | Purpose  | Document no.                   | Review timeframe<br>and status              | Approval requirement           | Agency Consultation |
|---|--|--------------------------------|---|--------------------------------|---------------------|
| Construction                            | Policy   | M6S1-CGU-NWW-PE-               | Annual                                      | Approval from                  | N/A                 |
| Environmental<br>Management Plan        | Legal and other requirements   | MPL-000400                     |   | Planning<br>Secretary,<br>DPIE |                     |
|   | Risk assessment  |                                |   |                                |                     |
|   | Objectives and targets   |                                |   |                                |                     |
|   | Roles and responsibilities   |                                |   |                                |                     |
|   | Communication and training   |                                |   |                                |                     |
|   | Monitoring, auditing and reporting   |                                |   |                                |                     |
|   | Corrective action  |                                |   |                                |                     |
|   | Management review  |                                |   |                                |                     |
|   | Management actions   |                                |   |                                |                     |
| Staging Report                          | Set out how construction of<br>the CSSI will be staged<br>and how compliance with<br>CoA conditions will be<br>achieved across and<br>between each stage | M6S1-CGU-NWW-PE-<br>PLN-000401 | Before<br>commencement of<br>any new stage. | Information<br>only            | N/A                 |

| Environmental<br>management<br>document        | Purpose  | Document no.  | Review timeframe<br>and status | Approval<br>requirement                         | Agency Consultation  |  |
|--|--|---|--------------------------------|---|--|--|
| Site Establishment<br>Management Plans         | Outline the environmental<br>management practices and<br>procedures to be<br>implement during the<br>establishment of<br>construction ancillary<br>facilities and for ongoing<br>analysis of environmental<br>risks arising from site<br>establishment | Refer to Appendix A4 of the CEMP  | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | Bayside, Georges<br>River and<br>Canterbury/Bankstown<br>Council |  |
| Sustainability Strategy                        | Outline the sustainability requirements, opportunities and risks for the Project   | M6S1-CGU-NWW-SB-<br>PLN-001400  | Annual                         | Information<br>only                             | N/A  |  |
| Communications<br>Strategy                     | Provide mechanisms to<br>facilitate communication<br>about construction and<br>operation with the<br>community, relevant<br>councils and government<br>agencies  | M6S1-CGU-NWW-CY-<br>PLN-000900  | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | N/A  |  |
| Compliance Monitoring<br>and Reporting Program | Identify the compliance<br>requirements, and set out<br>the methodology and the<br>type of data / evidence to<br>be collected to assess<br>whether compliance has<br>been achieved   | CGU has elected to implement the DPIE Independent Audit Post-Approvals Requirements<br>May 2020 (PAR 2020). Construction compliance reporting has been removed under this<br>version, however CGU will carry out a compliance monitoring and reporting program in<br>accordance with CoA C13. |                                |   |  |  |

| Environmental<br>management<br>document                   | Purpose   | Document no.                   | Review timeframe<br>and status | Approval<br>requirement                         | Agency Consultation               |
|---|---|--------------------------------|--------------------------------|---|-----------------------------------|
| Independent Audit<br>Program                              | Detail the independent<br>audit methodology<br>including scope of the audit<br>and selection/acceptance<br>process for auditors, and<br>set out the form and<br>content requirements for<br>audit findings. | In development                 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | N/A                               |
| Traffic and Access<br>Management<br>Procedure             | Describe the requirements<br>for planning and managing<br>CEMP activities and<br>control the interface<br>between public traffic,<br>construction traffic and<br>workers                                    | M6S1-CGU-NWW-PE-<br>PRO-000418 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | N/A for Procedure.                |
| Noise and Vibration<br>Preliminary Sub-plan               | Describe how to manage<br>potential noise and<br>vibration impacts during<br>preliminary construction<br>activities   | M6S1-CGU-NWW-PE-<br>PLN-000403 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | NSW Health and<br>Bayside Council |
| Out of Hours Work and<br>Construction Fatigue<br>Protocol | Identify a process for the<br>consideration,<br>management and approval<br>of works which are outside<br>standard hours, which are<br>not subject to an EPL   | M6S1-CGU-NWW-PE-<br>PRO-000425 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | N/A                               |

| Environmental<br>management<br>document           | Purpose   | Document no.                   | Review timeframe<br>and status | Approval<br>requirement                         | Agency Consultation  |
|---|---|--------------------------------|--------------------------------|---|--|
| Flora and Fauna<br>Management<br>Procedure        | Describe how to manage<br>impacts to flora and fauna<br>encountered during CEMP<br>activities   | M6S1-CGU-NWW-PE-<br>PRO-000419 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | N/A for Procedure.   |
| Air Quality and Odour<br>CEMP Sub-plan            | Describe how to manage<br>and protect air quality<br>during CEMP activities   | M6S1-CGU-NWW-PE-<br>PLN-000407 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | NSW Health<br>Bayside Council,<br>Georges River and<br>Canterbury/Bankstown<br>Council |
| Air Quality Monitoring<br>Program                 | Describe how CGU will<br>spatially and temporally<br>monitor air quality during<br>CEMP activities  | M6S1-CGU-NWW-PE-<br>PLN-000408 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | EPA  |
| Soil and Surface Water<br>Management<br>Procedure | Describe how CGU will<br>manage soil and surface<br>water impacts during<br>CEMP activities   | M6S1-CGU-NWW-PE-<br>PRO-000421 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | N/A for Procedure.   |
| Contamination CEMP<br>Sub-plan                    | Describe how to identify<br>contaminated land and<br>manage potential impacts<br>to human health and the<br>environment when<br>encountering contaminated<br>land | M6S1-CGU-NWW-PE-<br>PLN-000413 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | Bayside, Georges<br>River and<br>Canterbury/Bankstown<br>Council                       |

| Environmental<br>management<br>document             | Purpose  | Document no.                   | Review timeframe<br>and status | Approval<br>requirement                         | Agency Consultation  |
|---|--|--------------------------------|--------------------------------|---|--|
| Waste CEMP Sub-plan                                 | Describe how to manage<br>and protect waste and<br>resources during CEMP<br>activities   | M6S1-CGU-NWW-PE-<br>PLN-000414 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | Bayside, Georges<br>River and<br>Canterbury/Bankstown<br>Council |
| Heritage Management<br>Plan                         | Manage unexpected<br>heritage finds and ensure<br>construction does not have<br>an adverse effect on any<br>heritage items                                       | M6S1-CGU-NWW-PE-<br>PLN-000417 | Annual                         | Information<br>only                             | N/A  |
| Construction Parking<br>and Access Strategy         | Identify and mitigate<br>impacts resulting from on-<br>and off-street parking<br>changes during<br>construction.   | In development                 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | Bayside Council  |
| Green and Golden Bell<br>Frog Plan of<br>Management | Detail the management<br>and mitigation measures to<br>limit impacts on Green and<br>Golden Bell frogs including<br>monitoring and re-<br>instatement of habitat | In development                 | Annual                         | Approval from<br>Planning<br>Secretary,<br>DPIE | NSW Department of<br>Environment, Energy<br>and Science          |

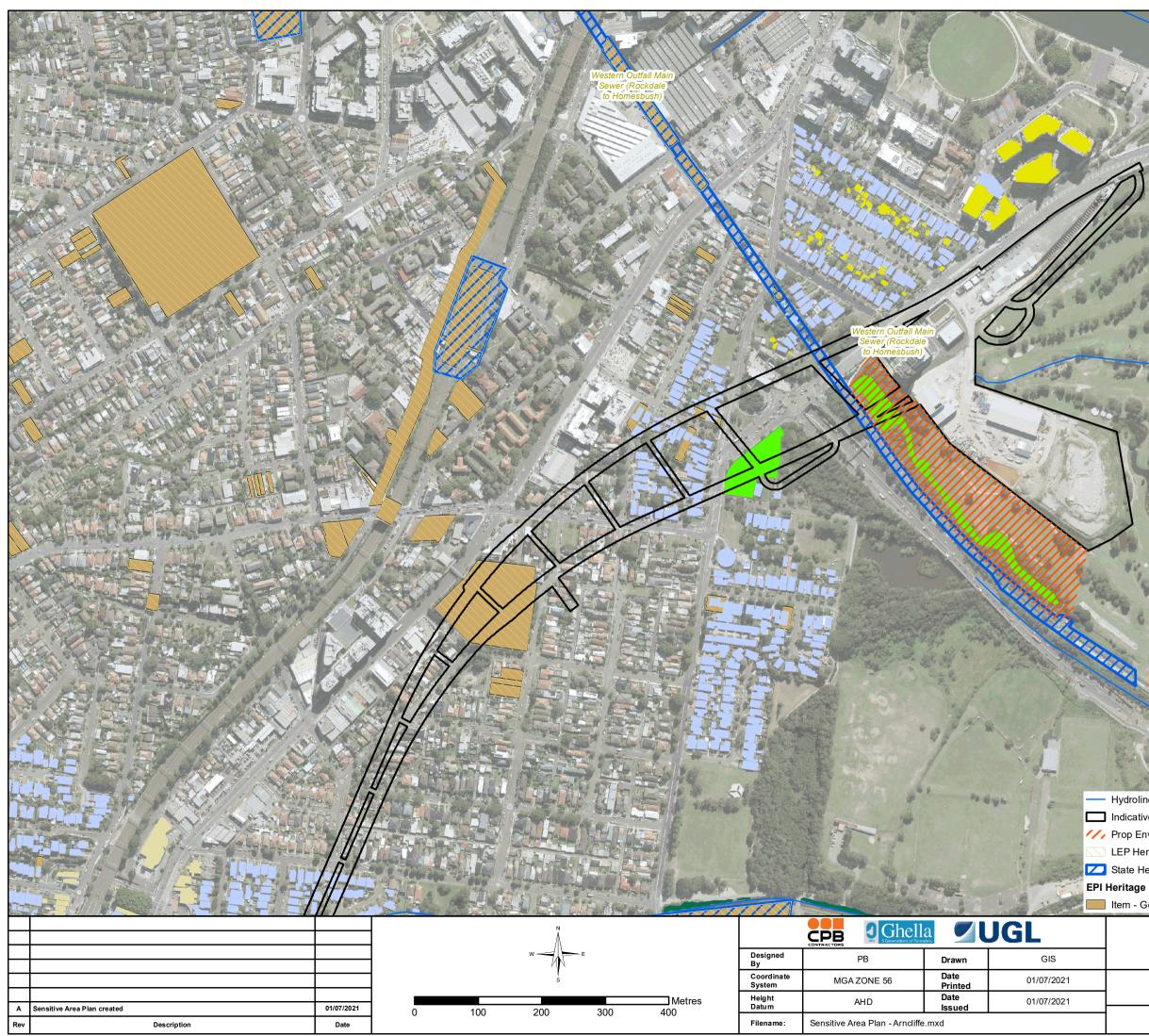


# **Appendix A6** Sensitive Area Plans

M6 Stage 1

16 July 2021

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#### - Hydroline

- Indicative Construction Boundary
- // Prop Environmental Exclusion Zone Residential LEP Heritage Zones
- State Heritage Register Curtilage

Item - General

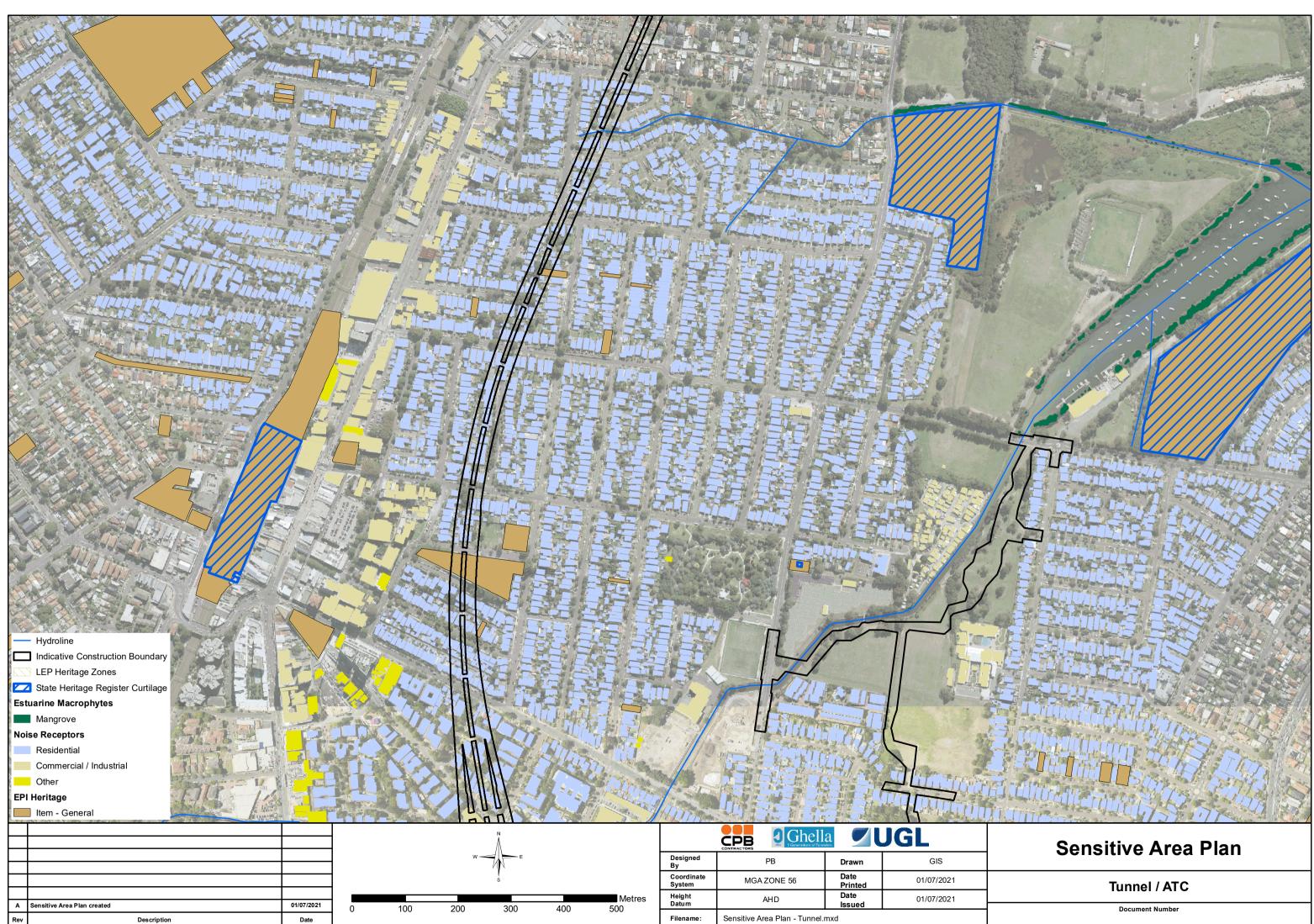
- Green and Golden Bell Frog Habitat Noise Receptors

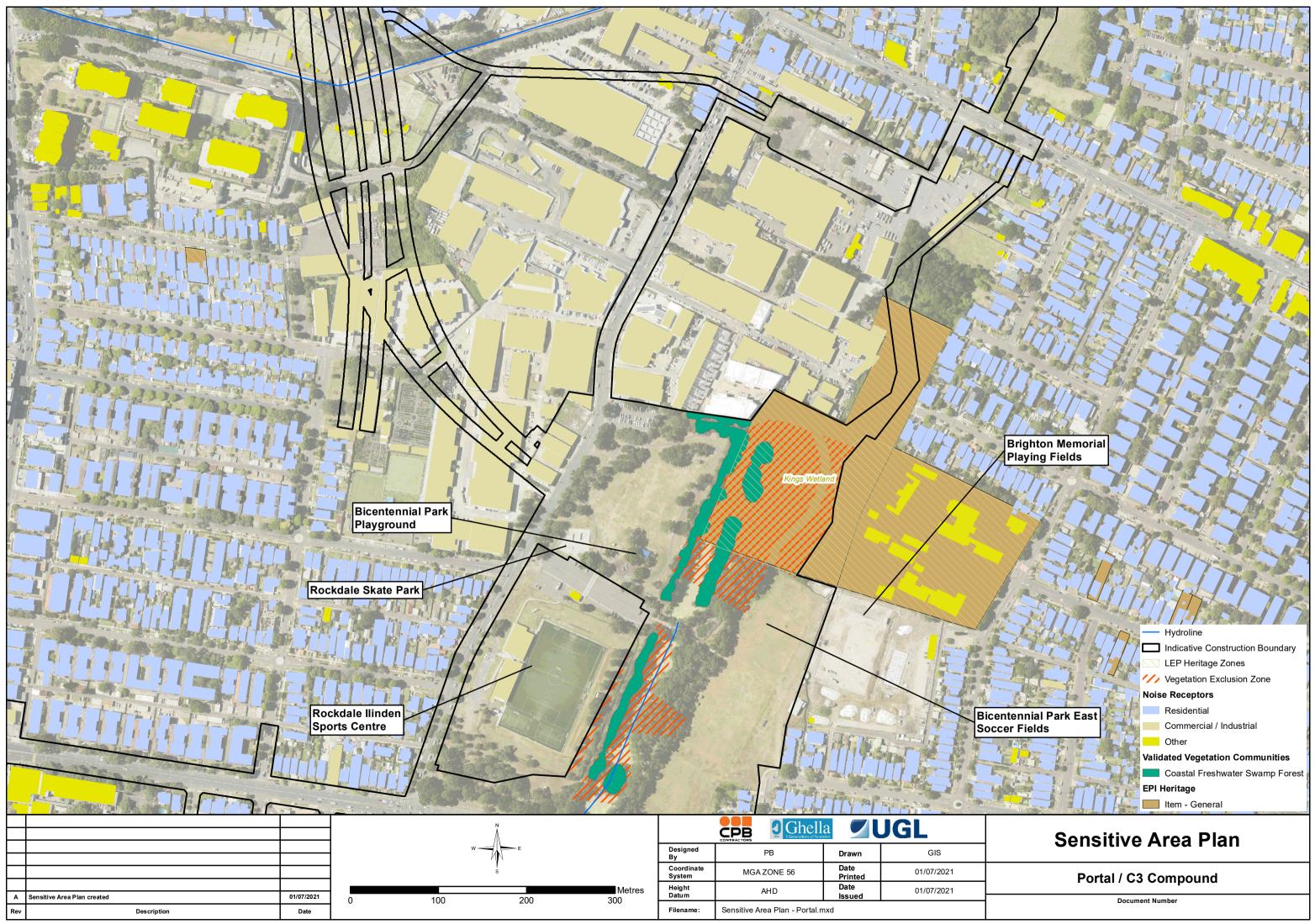
- Commercial / Industrial
- Other
- Estuarine Macrophytes
- Mangrove

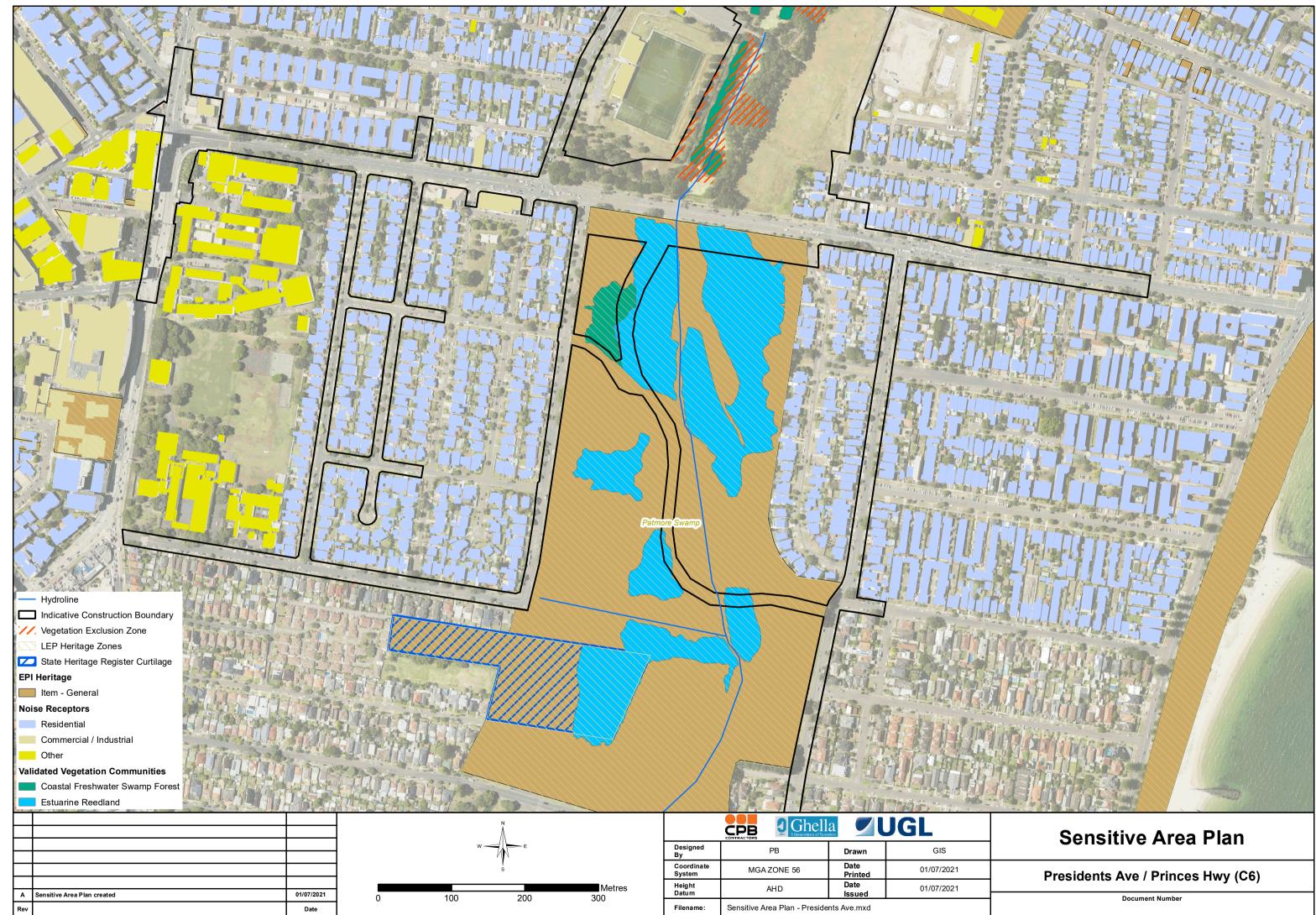
# Sensitive Area Plan

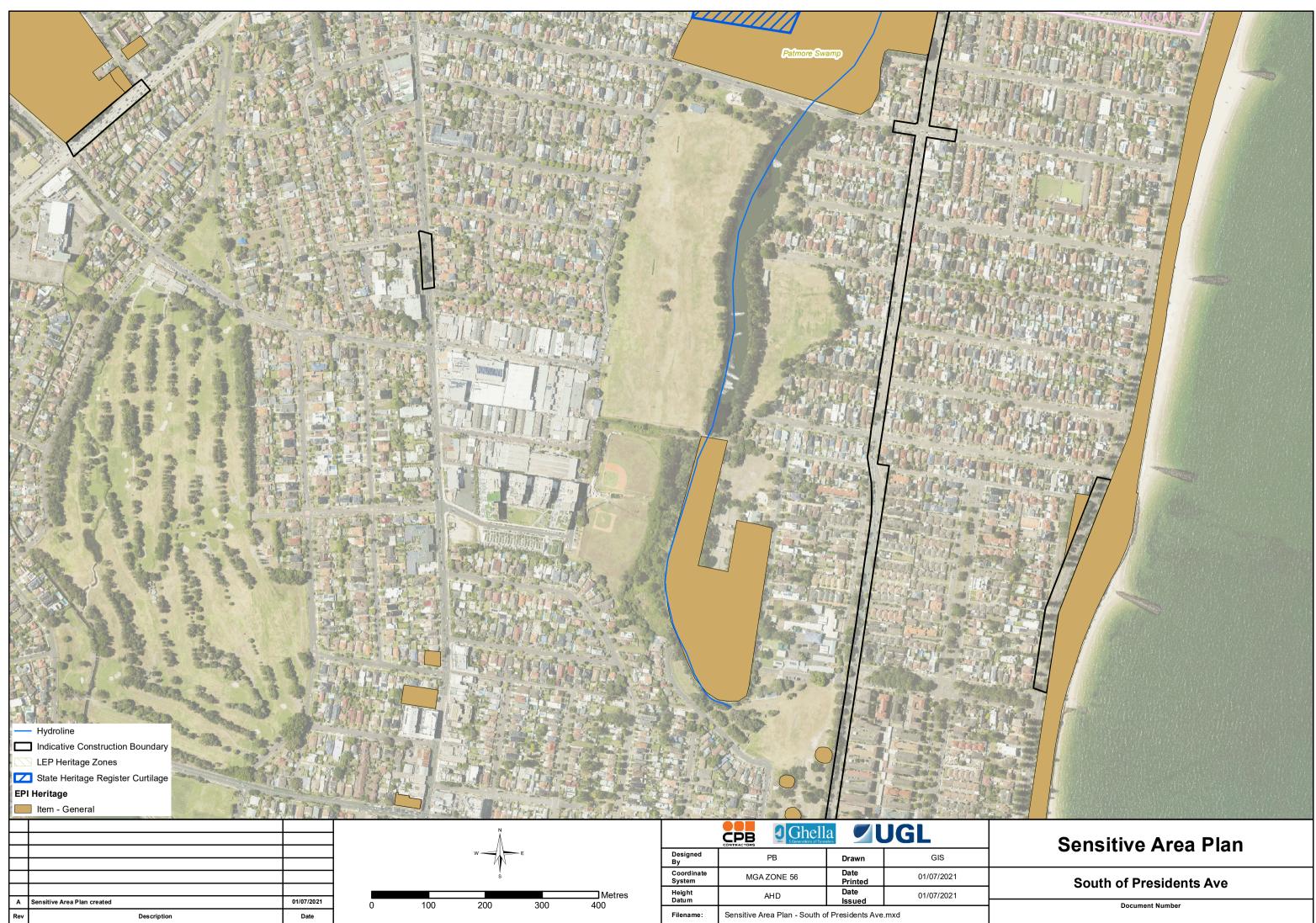
## Arncliffe (C1)

Document Number











# **Appendix A7**

Transport for New South Wales Environmental Incident Classification and Reporting Procedure

M6 Stage 1

July 2021

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UNCLASSIFIED

# Environmental Incident Procedure



Procedure Number:EMF-13-PR-0001 Environmental Incident ProcedureEffective Date:19/07/2021Review Date:19/07/2023

# 1 Who is this document for?

| All Ongoing / Temporary/ Seconded/Casual staff of TfNSW       | YES |
|---|-----|
| Transport Service Senior Managers and Executives              | YES |
| Labour Hire, Consultants and Professional Service Contractors | YES |
| Delivery Partners / Contractors                               | YES |

# 2 Purpose and Scope

#### 2.1 Purpose

The purpose of this document (Procedure) is to set out the procedure to be followed if, during an activity being carried out by or on behalf of TfNSW, there is:

- a report-only event
- a non-compliance
- regulatory action received
- an environmental incident.

The Procedure sets out the steps for the:

- identification,
- classification and
- reporting

of report-only events, non-compliances, regulatory action and environmental incidents.

### 2.2 Scope

The Procedure sets out internal only reporting processes for environmental events and the additional process for 'notifiable events', which are environmental incidents that must be reported externally (see section 3.3).

The Procedure is applicable to all TfNSW activities where report-only events, noncompliances, regulatory action and environmental incidents may occur. The requirements of the Procedure must be communicated to all TfNSW employees and contractors (e.g. during inductions) who undertake those activities.

This includes (but is not limited to):

- Activities undertaken by contractors on behalf of TfNSW
- Temporary activities, such as preliminary investigations (e.g. geotechnical and environmental surveys)
- Construction and maintenance of TfNSW assets
- Activities at TfNSW properties and facilities (including TAHE)
- Maritime vessels operated by TfNSW.

The procedure does NOT cover report-only events, non-compliances, regulatory action and environmental incidents relating to:



- Operating agencies embedded within TfNSW, such as Sydney Metro. At the time of release of the Procedure, there was a Corporate Functions Review underway, which sought to incorporate Sydney Trains and NSW TrainLink into TfNSW. The single operating model may involve the future amalgamation of environmental incident procedures. Regardless, it is noted that all agencies provide their incident data to Environment and Sustainability (E&S) Branch for the purposes of cluster reporting;
- Operational road and traffic activities of the general public (e.g. vehicle accidents, fires caused by discarded cigarette butts);
- Boating accidents (except those involving TfNSW Maritime vessels);
- Dumping of materials by members of the public on TfNSW managed land (except where hazardous materials are unexpectedly found during construction or maintenance activities);
- Marine oil and chemical spills covered by the National Plan for Maritime Environmental Emergencies (Australian Maritime Safety Authority, 2014).

The Procedure does not provide guidance on management responses or corrective actions required following environmental incidents and non-compliances, which are site specific and should be addressed by those with responsibility for the activity that caused the incident or non-compliance.

However, TfNSW E&S Branch is available to provide advice on appropriate responses and corrective actions in relation to individual incidents or non-compliances.

# 3 **Requirements**

# 3.1 Environmental incidents, report-only events, non-compliances and regulatory action

This Procedure is applicable to a range of environmental incidents, report-only events, noncompliances and regulatory action that may occur during activities undertaken by, or on behalf of, TfNSW. Each of these events and their reporting requirements are described in the following sections.

Personnel using this Procedure should consider the definitions of each of these events when reporting. Definitions are provided in Section 6.

Note that a set of circumstances may be both a non-compliance and an environmental incident. An environmental incident could also result in regulatory action.

#### 3.1.1 Environmental incidents

Environmental incidents are defined in section 6. Reporting requirements are detailed in section 3.2.

The person responsible for operational management of the site/activity that caused the incident should assume responsibility for reporting in accordance with this Procedure, together with coordinating the response to the incident, including directing actions as necessary.

The TfNSW Environment Manager will classify reported incidents for the purposes of internal environmental performance reporting and analysis of environmental incident trends (as outlined in Figure 3.2.1).

Environmental incident classifications are described in Table 3.1.1, below. The classification system is aligned to the consequence levels (C6 - C1) from the <u>TfNSW Enterprise Risk</u> <u>Management Standard</u> and considers the key risk areas of:

Environment



- Reputation and Integrity
- Regulations and Compliance.

The appropriate consequence level for each of the three key risk areas will be recorded for each incident, but only the highest recorded consequence level will be used as the incident classification for reporting purposes.

Note that not all criteria described for each consequence level in Table 3.1.1 need to be met in order to assign an incident classification – the most appropriate criteria should be considered when determining the consequence level for each key risk area for each incident.

**Effective Date:** 

Procedure Number: EMF-13-PR-0001 Environmental Incident Procedure 19/07/2021



#### Table 3.1.1: Environmental Incident Classification

|                             | Incident Category  |  |  |   |  |   |
|-----------------------------|--|--|--|---|--|---|
| Key risk area               | C6<br>Insignificant  | C5<br>Minor  | C4<br>Moderate   | C3<br>Major   | C2<br>Severe   | C1<br>Catastrophic  |
| Environment                 | No appreciable changes to environment.   | Change from existing<br>conditions that can be<br>rectified immediately (< 1<br>day) with available<br>resources.  | Short-term (< 1 year)<br>and/or well-contained<br>environmental impact.<br>Minor remedial actions<br>probably required.  | Short to medium term<br>(between 1 and <5<br>years) environmental<br>impact.<br>Considerable remedial<br>actions probably<br>required.  | Medium-term (>5 years)<br>environmental impact.<br>Extensive remedial<br>actions probably<br>required.   | Long-term (>10 years)<br>large-scale<br>environmental impact.<br>Extensive and ongoing<br>remedial actions<br>probably required.  |
| Reputation<br>and integrity | Single negative article in<br>local media.<br>Limited social media<br>commentary.<br>Goodwill, confidence and<br>trust retained.<br>Confined to the Branch.<br>Local council may want<br>to discuss. | Series of negative<br>articles in local media<br>(District / electorate<br>based adverse media).<br>Some social media<br>commentary.<br>Confidence remains -<br>minor loss of goodwill.<br>Confined to Branch but<br>requiring notification to<br>Division. Council requires<br>written explanation.<br>Recoverable with little<br>effort or cost.<br>Some continuing<br>scrutiny/attention. | Extended local media<br>coverage with some<br>broader Regional media<br>coverage.<br>Extended negative social<br>media coverage.<br>Confidence and trust of<br>stakeholders dented<br>(recoverable at modest<br>cost within existing<br>budget and resources).<br>Division formal response<br>needed to State<br>Government/Regulator. | State media coverage,<br>short term negative<br>national media coverage.<br>Widespread social media<br>coverage<br>Confidence/trust<br>impaired.<br>Project/activity credibility<br>under question.<br>TfNSW and/or Ministers<br>Department requires<br>update. | Sustained negative State<br>media coverage.<br>Regular 'talk-back'<br>programs questioning<br>credibility and capability.<br>Confidence and trust are<br>severely damaged.<br>Widespread negative<br>social media coverage.<br>Regular updates<br>demanded by Minister.<br>Stakeholders withdraw<br>their support recoverable<br>at considerable cost,<br>time and staff effort. | Sustained, high profile<br>media attention at<br>National level.<br>Material change in the<br>public perception of the<br>Agency.<br>Extensive negative social<br>media coverage<br>Confidence and trust<br>non-existing.<br>Government forced to<br>reverse decision.<br>Stakeholders are actively<br>campaigning against the<br>organisation. |

**Effective Date:** 

Procedure Number: EMF-13-PR-0001 Environmental Incident Procedure 19/07/2021



|                                  | Incident Category  |   |   |  |  |   |
|----------------------------------|--|---|---|--|--|---|
| Key risk area                    | C6<br>Insignificant  | C5<br>Minor   | C4<br>Moderate  | C3<br>Major  | C2<br>Severe   | C1<br>Catastrophic  |
| Regulations<br>and<br>compliance | Low-level/Technical non-<br>compliance with legal<br>and/or regulatory<br>requirement or duty by<br>individuals or TfNSW- not<br>reportable.<br>Minor non-compliance to<br>a low impact contract<br>clause – little or no<br>interest by either party to<br>pursue or rectify. | Non-compliance with<br>whole or significant<br>aspects of Government<br>policy not reportable but<br>requiring internal activity<br>to put in place.<br>Formal investigation<br>and/or formal notification<br>to regulator.<br>Minor breach of contract<br>by either party rectified<br>through local<br>management discussion. | Non-compliance with key<br>Government policy -<br>reportable and/or<br>explanation required –<br>need to put in place as<br>soon as possible.<br>Non-compliance – key<br>obligation.<br>Formal notification to<br>regulator.<br>Agency on notice.<br>Breach of contract by<br>either party rectified at<br>Branch level<br>management discussion.<br>Small fine and no<br>disruption to services. | Technical non-<br>compliance with a minor<br>Government Policy - not<br>reportable.<br>Low level non-<br>compliance.<br>Technical non-<br>conformance.<br>Minor non-compliance to<br>a low impact contract<br>clause – little or no<br>interest by either party to<br>pursue or rectify.<br>Substantial fine and no<br>disruption to services. | <ul> <li>Non-compliance with<br/>high profile, outward<br/>facing Government policy<br/>or Ministerial decree -<br/>immediately reportable to<br/>Government body (e.g.<br/>Treasury) and action to<br/>put in place required<br/>immediately (high<br/>priority).</li> <li>Continuous breach<br/>resulting in prohibition<br/>notices.</li> <li>Breach of significant, key<br/>aspects of contract by<br/>either party leading to<br/>lodgement (threat) to sue<br/>and recompense at<br/>severe financial levels<br/>Cessation of contract<br/>may occur.</li> <li>Large fines as a result of<br/>non-compliance.</li> <li>Licence or accreditation<br/>restricted or conditional<br/>affecting ability to<br/>operate.</li> </ul> | <ul> <li>Non-compliance with<br/>high profile Government<br/>policy or Ministerial<br/>decree - immediately<br/>reportable to Ministerial<br/>level requiring actions to<br/>put in place immediately<br/>(high priority) and<br/>progress to be reported<br/>to the Minister on an<br/>agreed and appropriate<br/>schedule.</li> <li>Litigation and potentially<br/>imprisonment.</li> <li>Loss of Operating<br/>licenses.</li> <li>Continued breach cannot<br/>be tolerated.</li> <li>Major contract breach by<br/>either party leading to<br/>significant litigation and<br/>financial costs</li> <li>Total breakdown and<br/>cessation of contract.</li> <li>Criminal prosecution as a<br/>result of non-compliance.</li> </ul> |

#### Table 3.1.1: Environmental Incident Classification



#### 3.1.2 Significant environmental incidents

Significant Incidents are environmental incidents that are serious in nature and have significant consequences warranting escalation to TfNSW senior management.

An environmental incident is to be defined and treated by the TfNSW Environment Manager as a potential Significant Incident if it meets one or both of the following:

- the severity of the incident is likely to be classified as C3, C2, or C1 in accordance with Section 3.1.1
- the history of the project, past performance and/or previous regulatory interest, indicate the project is likely to be the subject of a penalty notice or prosecution

Potential Significant Incidents are escalated by TfNSW to the Executive Director Environment and Sustainability, who will determine whether the incident is deemed to be a Significant Incident and require further escalation to the Secretary and other senior management, to ensure they are aware of the incident and can implement or authorise any required responses.

The Significant Incident escalation process is detailed in Appendix A and Figure 3.2.1.

#### 3.1.3 Report-only events

Report-only events are defined in section 6. Reporting requirements are detailed in section 3.2. Examples of report-only events include:

- Environmental incidents caused by weather events that are beyond the design capacity
  of environmental controls and/or mitigation measures in accordance with project specific
  requirements;
- Environmental incidents caused by persons or entities not associated with an activity being undertaken by TfNSW;
- Pre-existing conditions not associated with an activity being undertaken by TfNSW;

• Unexpected finds that are managed in accordance with relevant procedures / guidelines. Despite these events being outside the scope of control of an activity, it is likely that a management response will be required to address them. As such, it is important that they are still reported (see section 3.2) to understand any resulting environmental impacts, inform trend analysis and any future activities in that location and allow any required management responses to be developed.

Report-only events can be considered to be unavoidable and so not reflecting the performance of a site, and will not be included in performance reporting. However, the response to a report-only event should be taken into account when considering site performance, as a deficient or inappropriate management response could result in a non-compliance and/or an environmental incident.

Where a report-only event relates to an unexpected find and the same issue can then reasonably expected to be found at the same location in future, additional finds from that location need not be reported.

#### 3.1.4 Non-compliances

Non-compliance is defined in section 6. Reporting requirements are detailed in section 3.2.

A non-compliance could also be an environmental incident.

#### 3.1.5 Regulatory action

Regulatory action is defined in section 6. Reporting requirements are detailed in section 3.2.



Regulatory action includes, but is not limited to:

- Prosecutions
- Penalty notices
- Clean up notices
- Prevention notices
- Official cautions
- Formal warnings
- EPA show cause notifications.

Copies of any regulatory action issued by an environmental regulator must be provided as part of the reporting that is undertaken in accordance with section 3.2.

#### 3.2 Reporting process

#### 3.2.1 Standard reporting process

The standard reporting process for all environmental incidents, significant environmental incidents, report-only events, non-compliances and regulatory action is detailed in Figure 3.2.1.

Where the reporting process requires submission of a written report to TfNSW, the person making the report must use the following formats and meet the information requirements detailed within each:

- Road based and maritime projects: Environmental Event Reporting Form (624/400)
- Rail based projects: INX reporting system

Information included in reporting must be factual and accurate.

For the initial 24-hour email notification for road projects, the following information must be provided:

- Date of event
- Project / site name
- Type of event that has occurred (ie- environmental incident, incident and noncompliance, non-compliance, report-only or regulatory action)
- Description of the event
- Quantity / volume
- Immediate response actions that were implemented
- Notification/s undertaken.

In the case that regulatory action is received relating to a previously reported environmental incident, non-compliance or report-only event, reference to the relevant event must be made in the report for the regulatory action.

Effective Date:

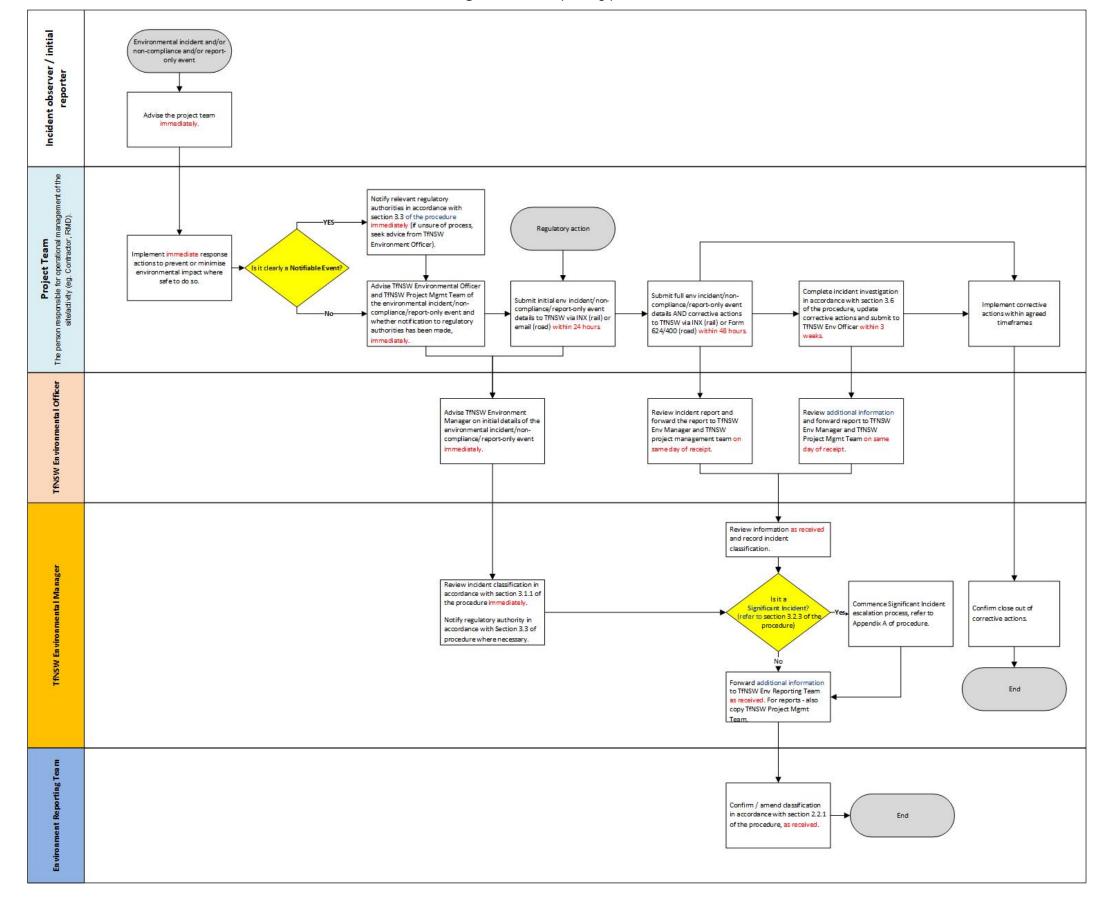


Figure 3.2.1: Reporting process





#### 3.2.2 Other internal notifications

When reporting in accordance with Figure 3.2.1, TfNSW project management teams should also undertake the following internal notifications as appropriate:

- Corporate Communications / Media for any environmental incidents, report-only events, non-compliances and regulatory action that have potential for negative community or media attention;
- Legal Branch, for any environmental incidents, report-only events, non-compliances and regulatory action that could result in a (further, in the case of the latter) regulatory response against TfNSW. In these instances, limit written commentary on the incident by all staff, including emails;
- Safety Branch for any incidents that involve actual or potential risks to the health and safety of workers or the general public.

#### 3.3 Notifiable events

A notifiable event is any environmental incident, report-only event or non-compliance (see section 3.1, above) that triggers a specific statutory requirement to notify an authority.

The key notification requirements are described below. Note each statutory requirement to notify may specify a particular person who is responsible to make the notification as well as the timing of when this must occur. The details of any notification conducted must be included in the reporting that is undertaken in accordance with section 3.2.

#### 3.3.1 Material Harm pollution incidents

Under Part 5.7 of the POEO Act, there is a duty to immediately notify (i.e. promptly and without delay) each relevant authority (see section 3.3.2) of a pollution incident where material harm to the environment is caused or threatened.

The POEO Act states that a pollution incident should be considered Material Harm if:

*"(i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or* 

(ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000"

Material Harm only relates to pollution incidents. Other environmental incidents, such as conservation, heritage and planning breaches, are not included in the definition of a pollution incident.

#### 3.3.2 Notification of Material Harm pollution incidents

The relevant authorities that must be notified for a Material Harm pollution incident are listed in tables 3.3.2a and 3.3.2b below. It is important to note the order of notification and phone numbers to use can vary depending on the nature of the pollution incident, as detailed in the two tables.

All of the authorities listed (whether considered relevant or not) <u>must</u> be contacted for each Material Harm pollution incident to satisfy POEO Act requirements. Serious penalties apply to both individuals and corporations for failing to notify Material Harm pollution incidents:

- Maximum penalty for individuals \$500,000
- Maximum penalty for corporations \$2,000,000.



# **Table 3.3.2a:** Authorities to notify for Material Harm pollution incidents that present an immediate threat to human health or property

| Order | Authority  | Contact number  |  |
|-------|--|---|--|
| 1     | Fire and Rescue NSW  | 000   |  |
| 2     | NSW EPA environment line   | 131 555   |  |
| 3     | Ministry of Health (via the local Public Health Unit)*   | Contact 1300 066 055 to be directed to the local Public Health Unit, or visit the <u>NSW</u><br><u>Health Website</u>   |  |
| 4     | SafeWork NSW   | 131 050   |  |
| 5     | <ul> <li>The Appropriate Regulatory Authority*, being either:</li> <li>Local council</li> <li>Western Lands Commissioner for the Western Division (except any part of the Western Division within the area of a local council).</li> </ul> | Local council - contact Office of Local<br>Government on 4428 4100, or visit the <u>Office</u><br><u>of Local Government website</u><br>Western Lands Commissioner – phone 6883<br>5400 |  |

#### Table 3.3.2b: Authorities to notify for Material Harm pollution incidents that do <u>NOT</u> present an immediate threat to human health or property

| Order | Authority  | Contact number  |
|-------|--|---|
| 1     | NSW EPA environment line   | 131 555   |
| 2     | <ul> <li>The Appropriate Regulatory Authority*, being either:</li> <li>Local council</li> <li>Western Lands Commissioner for the Western Division (except any part of the Western Division within the area of a local council).</li> </ul> | Local council - contact Office of Local<br>Government on 4428 4100, or visit the <u>Office</u><br><u>of Local Government website</u><br>Western Lands Commissioner – phone 6883<br>5400 |
| 3     | Ministry of Health (via the local Public Health Unit)*   | Contact 1300 066 055 to be directed to the local Public Health Unit, or visit the <u>NSW</u><br><u>Health Website</u>   |
| 4     | SafeWork NSW   | 131 050   |
| 5     | Fire and Rescue NSW  | 1300 729 579  |

\* The appropriate contact for the Appropriate Regulatory Authority and Public Health Unit will vary according to the geographic location of the activity. These contact numbers should be found in advance and stored for immediate access (e.g. in a project's Construction Environmental Management Plan and/or on site notice boards) should a pollution incident need to be notified.

When notifying authorities, do not speculate on the origin, causes or outcomes of a pollution incident. Rather, state very simply and concisely the following only:

a) The time, date, nature, duration and location of the incident



- b) The location of the place where pollution is occurring or is likely to occur, the nature, the estimated quantity or volume and the concentration of any pollutants involved, if known
- c) The circumstances in which the incident occurred (including the cause of the incident, if known)
- d) The action taken or proposed to be taken to deal with the incident and any resulting pollution or threatened pollution, if known.

If further information becomes known after the initial notification, that information must immediately be notified to all authorities in accordance with Section 150 of the POEO Act. The verbal notification must be followed by written notification to each relevant authority within seven days of the date on which the incident occurred, setting out the above information.

#### 3.3.3 Summary of other regulatory agency notification requirements

A summary of the other key statutory notification requirements that could arise from TfNSW environmental incidents, report-only events and non-compliances is provided in Table 3.3.3.

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|   | Table 3.3.3: Regulatory agency notification requirements                                 |                |   |   |
|---|--|----------------|---|---|
| Event type  | Legislation  | Part / section | Agency  | Notification requirement  |
| Discover<br>Aboriginal object                           | National Parks and<br>Wildlife Act 1974  | Section 89A    | Heritage NSW  | Notify the Secretary of the Department of Planning, Industry and<br>Environment in writing using the form approved by the Secretary (if any)<br>within a reasonable time after becoming aware |
| Discover<br>Aboriginal<br>remains                       | Commonwealth<br>Aboriginal and Torres<br>Strait Islander Heritage<br>Protection Act 1984 | Section 20     | Commonwealth<br>Department of<br>Agriculture,<br>Water and the<br>Environment | Notify the Commonwealth Minister in writing as soon as practicable after becoming aware, giving particulars of the remains and their location   |
| Discover non-<br>Aboriginal relic                       | Heritage Act 1977  | Section 146    | Heritage NSW  | Notify the Heritage Council in writing within a reasonable time after becoming aware  |
| Fires   | Rural Fires Act 1997   | Section 64     | NSW Rural Fire<br>Services  | Notify an appropriate fire officer of the inability to extinguish any fire burning during a bush fire danger period applicable to the land.   |
| Land  | Contaminated Land  |                | EPA   | Notify EPA in writing as soon as practicable after becoming aware of the contamination, where required as prescribed in the EPA   |
| contamination   | Management Act, 1997   | Section 60(1)  |   | 'Guidelines on the Duty to Report Contamination under the Contaminated Land Management Act 1997'  |
| Non-compliance  | Various  | N/A            | Various   | Requirements to notify the relevant regulatory authority when a non-<br>compliance has occurred (eg- with a Condition of Approval issued under<br>Division 5.2 of the EP&A Act)               |
| Pollution incident<br>(material harm)                   | Protection of the<br>Environment Operations<br>Act, 1997                                 | Part 5.7       | EPA   | See section 3.3.2   |
| Pollution incident<br>in water supply<br>catchment area | Various  | N/A            | N/A   | Notify the relevant water supply authority if an environmental incident has the potential for unapproved impacts on a drinking water supply   |



## 3.4 Requests for written reports from regulatory authorities

If TfNSW receives a request from an environment regulatory authority for a written report regarding an environmental incident, report-only event or non-compliance, the relevant Environment Manager must be immediately contacted for advice. No further correspondence (including email) about the event should be distributed either internally or externally until advice is received. E&S will then coordinate with Legal Branch to:

- assist in the investigation of the environmental incident, report-only event or noncompliance
- provide legal advice to the project
- co-ordinate the preparation of the written response to the regulatory authority.

#### 3.5 **Corrective actions**

A key aspect of the TfNSW Environment and Sustainability Policy that is addressed through this procedure is being accountable for addressing and minimising the environmental impacts of TfNSW activities. This can be achieved by developing appropriate corrective actions and implementing them within a timely manner following an environmental incident, with the aim of avoiding a repeat of that incident.

There are a variety of scenarios in which an environmental event may occur on a TfNSW project. It is important that corrective actions are:

- specific to the incident that has occurred
- meaningfully address the root cause(s) of the incident
- designed to prevent incident reoccurrence.

Corrective actions could include (but are not limited to) the following:

- physical works to install, augment or rectify controls or a site issue
- testing and/or monitoring
- review and improvement of construction methods or work practices
- review and update of management plans, procedures or other tools
- communication, training and awareness initiatives for workers.

In most cases it will not be sufficient to simply notify workers of correct systems / procedures (e.g. via toolbox talk). A review should be undertaken by the project team following an incident or non-compliance to determine why the systems / procedures failed (or alternatively a formal investigation, when required by section 3.6), and necessary changes made to ensure they do not fail in future. Site staff should then be made aware of the changes and trained as necessary.

Immediate/short-term corrective actions including timeframes for completion must be clearly described in incident/non-compliance reporting. Updates about longer-term corrective actions including timeframes for completion can be provided to the TfNSW Environment Officer and TfNSW Project Management Team post submission of the incident/non-compliance report.

#### 3.6 Investigations

Serious environmental incidents and non-compliances must be investigated to identify the causes, with the purpose of preventing a recurrence. A root cause analysis investigation must be completed by the project team for all environmental incidents with a classification of C1, C2 or C3, or any other environmental incidents or non-compliances as determined by TfNSW.

The scope of the investigation will be determined by the TfNSW Environment Officer or Environment Manager. The project team must provide TfNSW with a final investigation report



within three weeks of the environmental incident or non-compliance being identified. The report must include the minimum information described in Table 3.6 (below).

| Table 3.6: Investigations |  |  |  |
|---------------------------|--|--|--|
| Element                   | Description  |  |  |
| Sequence of events        | The sequence of events that led to the incident or non-compliance  |  |  |
| Findings                  | Given the sequence of events, what are the key findings of the investigation (i.e. what are the main causes of the incident or non-compliance).                |  |  |
| Management methods        | A record of the management methods to be changed and/or implemented to avoid the incident or non-compliance reoccurring.                                       |  |  |
| Key learnings             | Describe the key learnings from the investigation into the incident or non-<br>compliance. Detail which learnings may be relevant to other transport projects. |  |  |

# 4 Accountabilities

Table 4 details the key accountabilities for implementing this Procedure.

| Table 4: Key accountabilities   |   |  |  |
|---|---|--|--|
| Requirement   | Detail  |  |  |
| Environment Director  | Oversee compliance with the procedure and make the final determination<br>on the classification of all environmental incidents, report-only events and<br>non-compliances   |  |  |
| Environment reporting team  | Recording of all environmental incidents, report-only events, non-<br>compliances and regulatory action, confirm / amend the classification of<br>environmental incidents, report-only events and non-compliances in<br>accordance with section 3.1 and monitor compliance with the Procedure |  |  |
| Executive Director<br>Environment and<br>Sustainability   | Make determinations on whether an environmental incident will be<br>considered a Significant Incident (see section 3.1.2). Assume the role of<br>Information Distributor when a Significant Incident has occurred (see<br>Appendix A).  |  |  |
| Observer of<br>environmental<br>incident, report-only<br>event, non-compliance<br>or regulatory action              | Immediately report in accordance with Figure 3.2.1  |  |  |
| Person/s responsible<br>for environmental<br>incident, report-only<br>event, non-compliance<br>or regulatory action | Report and respond in accordance with Figure 3.2.1  |  |  |
| Project Managers  | Provide appropriate resources to respond to an environmental incident,<br>report-only event, non-compliance or regulatory action in accordance with<br>this Procedure   |  |  |



| Table 4: Key accountabilities |  |  |  |
|-------------------------------|--|--|--|
| Requirement                   | Detail   |  |  |
| TfNSW Environment<br>Manager  | Report environmental incidents, report-only events, non-compliances or regulatory action in accordance with Figure 3.2.1, assign initial classification in accordance with section 3.1.1, monitor corrective actions, and actively promote compliance with this procedure at a program level. Assume the role of Information Controller when a Significant Incident has occurred (see Appendix A). |  |  |
| TfNSW Environment<br>Officer  | Report environmental incidents, report-only events, non-compliances or regulatory action in accordance with Figure 3.2.1, monitor corrective actions and actively promote compliance with this procedure at a project level  |  |  |

# 5 Related policy, systems and documents

The following documents and systems are available on agency intranets and the internet:

- Environmental Event Report Form (for use by road and maritime sites and projects)
- INX system (for use by rail and light rail sites and projects)
- Environment and Sustainability Policy
- Unexpected finds procedures refer to relevant guideline/procedure

## 6 Definitions and acronyms

All terminology in this Procedure is taken to mean the generally accepted or dictionary definition with the exception of the following terms which have a specifically defined meaning:

- Significant incident an environmental incident that is likely to receive a classification of C3, C2 or C1, OR the history of the project, past performance and/or previous regulatory interest, indicate the project is likely to receive a penalty notice or be subject to prosecution, and therefore requires escalation to the Secretary and other TfNSW senior management
- DPIE Department of Planning, Industry and Environment
- Environment Director consists of Associate Director Environmental Management; Director Environment Motorways; Director Environment Regions; Director Environment Sydney
- Environment Manager consists of Environment Manager or Senior Manager Environment from Environment and Sustainability Branch
- Environment Officer consists of Environment Officer and Environment and Planning Manager from Environment and Sustainability Branch
- Environment Reporting team consists of those in Environment and Sustainability Branch responsible for administering and maintaining the EnvOps mailbox and INX reporting system (for environment entries)
- Environmental event a report-only event, non-compliance, regulatory action or environmental incident
- Environmental incident An environmental incident is an event or set of circumstances, as a consequence of which pollution (air, water, noise, or land) or an adverse environmental impact has occurred, is occurring, or is likely to occur. Adverse environmental impact includes contamination, harm to flora and fauna (either individual



species or communities), damage to heritage items and adverse community impacts. An unexpected find that is not managed in accordance with relevant procedures / guidelines is also considered an environmental incident

- EPA NSW Environment Protection Authority
- **EPL** Environment Protection Licence (issued by EPA)
- **E&S** (Safety, Environment and Regulation) Environment and Sustainability Branch
- **Investigation** The process by which the cause(s) of an environmental incident is examined and identified.
- INX reporting system the online system used to record and track environmental incidents, report-only events, non-compliances and regulatory action relating to rail projects and premises.
- **Non-compliance** a failure to comply with any condition of approval, environmental assessment safeguard / mitigation measure, licence condition, permit or any other statutory approval relevant to the activity and/or area where the activity occurs;
- **Notifiable event** Any environmental incident, report-only event or non-compliance that triggers a specific statutory requirement to notify a regulatory authority.
- POEO Act Protection of the Environment Operations Act 1997
- **Pollution** Pollution (including air pollution, water pollution, noise pollution and land pollution) as defined in the dictionary to the POEO Act.
- Pollution incident Has the same meaning as defined in the dictionary to the POEO Act.
- Regulatory action any formal regulatory response from an environmental regulator including but not limited to penalty notices, clean-up notices, prevention notices, official cautions, show cause notices and formal warnings.
- **Report-only event** An environmental incident or unexpected find resulting from circumstances outside the scope of controls and of an activity.
- **RMS** Roads and Maritime Services
- TfNSW Transport for NSW (excludes the operating agencies: Sydney Trains; Sydney Metro; State Transit Authority; NSW TrainLink)
- Transport Cluster all TfNSW divisions and operating agencies (includes the operating agencies: Sydney Trains; Sydney Metro; State Transit Authority; NSW TrainLink)
- **Unexpected find** An unexpected discovery such as a heritage item, threatened species, contamination, asbestos or hazardous substance.
- WHS Work Health and Safety

## 7 Document control

#### 7.1 Superseded documents

This Procedure replaces the following documents:

- Roads and Maritime Services Environmental Incident Classification and Reporting Procedure (RMS 17.374)
- Transport for NSW Environmental Incident Classification and Reporting (PR-105)



## 7.2 Document history

| Date &                           | Document   | Approved by   | Amendment |
|----------------------------------|--|---|-----------|
| Procedure No                     | owner  |   | notes     |
| 19/07/2021<br>EMF-13/PR-<br>0001 | Environment<br>Manager<br>Performance<br>Improvement | Executive Director<br>Environment and<br>Sustainability | N/A       |

## 7.3 Feedback and help

For advice on using this Procedure please contact:

Environment Manager Performance Improvement

Email: envops@rms.nsw.gov.au

Phone: (02) 8849 2586.



# **Appendix A: Significant Incident escalation process**

## A1 Confirmation of a Significant Incident

Where an Environment Manager believes that a Significant Incident has occurred (see section 3.1.2 and Figure 3.2.1), they must immediately phone the relevant Environment Director. The Environment Director will consult with the Executive Director Environment and Sustainability, who will determine whether the incident will be considered a Significant Incident. Once a Significant Incident has been determined, the escalation process will commence in accordance with sections A2 and A3, below.

#### A2 Significant Incident information management

Following determination of a Significant Incident (see section A1, above), it is essential that there is fast, consistent and accurate reporting of information to the TfNSW senior management. As such, clear roles and responsibilities must be established in two key areas, as described in Table A2.

|                            | Table A2: Roles and responsibilities during a Significant Incident  |   |  |  |
|----------------------------|---|---|--|--|
| Role                       | Who   | Responsibilities  |  |  |
| Information<br>Controller  | Environment<br>Manager (or relevant<br>Environment Officer<br>in their absence)   | <ul> <li>Liaise between the on-site TfNSW project<br/>management team and the Information Distributor<br/>(below)</li> <li>Be the single point of contact to provide<br/>information and updates about the status of the<br/>Significant Incident to the Information Distributor</li> </ul>   |  |  |
| Information<br>Distributor | Executive Director<br>Environment and<br>Sustainability (or<br>relevant<br>Environment<br>Director in their<br>absence) | <ul> <li>Identify the relevant members of the Executive and other senior management that will form the distribution group to be informed about the Significant Incident (see Table A3)</li> <li>Consolidate information from the Information Controller, and distribute it to the distribution group</li> <li>Provide key ongoing updates to the distribution group as it becomes available</li> <li>Respond to enquiries from the distribution group, ensuring all members of the distribution group are copied into every response</li> </ul> |  |  |

### A3 Parties to be notified

As described in Table A2, the Information Distributor must identify relevant TfNSW senior management from delivery and client divisions that will form the distribution group to be informed about the Significant Incident, including ongoing updates. Table A3 provides the key positions that must be included (at a minimum), depending on who is undertaking the activity. Depending on the type and location of the activity, there may be other areas of TfNSW that should be included in the distribution group – see section 3.2.2.



The distribution group should all be notified concurrently in a single email that a Significant Incident has occurred. The email should be sent by the Information Distributor within five minutes of making the determination of the Significant Incident.

| Table A3: TfNSW distribution group to be notified during a Significant Incident |   |  |  |  |
|---|---|--|--|--|
|   | Greater Sydney (Client)   | Regional & Outer Metropolitan<br>(Client)  |  |  |
| Transport exec notification   | Secretary   | Secretary  |  |  |
| SER exec<br>notification  | <ul> <li>Deputy Secretary, Safety<br/>Environment and Regulation</li> </ul>   | <ul> <li>Deputy Secretary, Safety<br/>Environment and Regulation</li> </ul>  |  |  |
| Client exec<br>notification   | <ul> <li>Deputy Secretary, Client<br/>Division</li> <li>Executive Director, Community<br/>and Place</li> <li>Relevant City Director<br/>(Harbour/River/Parkland)</li> </ul>   | <ul> <li>Deputy Secretary, Client<br/>Division</li> <li>Executive Director,<br/>Community and Place</li> <li>Relevant Regional Director</li> </ul>   |  |  |
| Delivery exec<br>notification   | <ul> <li>Deputy Secretary, relevant<br/>Delivery Area</li> <li>Executive Director (or<br/>equivalent) of relevant Delivery<br/>Area (e.g. Head of Sydney<br/>Project Delivery, Head of Rail<br/>Delivery, Chief Operations<br/>Officer, Executive Director<br/>Planning and Programs)</li> <li>Director of relevant Delivery<br/>Area (e.g. WSPO, GSPO,<br/>Parramatta Light Rail, Rail<br/>Infrastructure Delivery, Sydney<br/>Maintenance, Easing Sydney's<br/>Congestions etc.)</li> </ul> | <ul> <li>Deputy Secretary, relevant<br/>Delivery Area</li> <li>Executive Director (or<br/>equivalent) of relevant<br/>Delivery Area (e.g. Head of<br/>Regional Project Delivery,<br/>Executive Director Network<br/>and Assets)</li> <li>Director of relevant Delivery<br/>Area (e.g. Regional<br/>Maintenance, NPO, SaWPO)</li> </ul> |  |  |
| Project Team<br>notification  | <ul> <li>Project Director (or equivalent)<br/>of relevant Delivery Area</li> <li>Senior Project Manager</li> <li>Project Manager</li> <li>Environment Manager</li> </ul>  | <ul> <li>Project Director (or equivalent)<br/>of relevant Delivery Area</li> <li>Senior Project Manager</li> <li>Project Manager</li> <li>Environment Manager</li> </ul>   |  |  |