## AW EDWARDS

# **Construction Spoil Management Plan**

| PROJECT            | Sydney City & Southwest Metro – Crows<br>Nest Station | REVISION | 01               |
|--------------------|---|----------|------------------|
| DOCUMENT<br>NUMBER | SMCSWSCN-AWE-SCN-EM-PLN-<br>0000025                   | DATE     | 04.10.2022       |
| CLIENT             | Sydney Metro  | STATUS   | For Construction |

### **DOCUMENT INFORMATION**

|              | PREPARED BY                        | <b>REVIEWED BY</b>  | APPROVED BY            |
|--------------|------------------------------------|---------------------|------------------------|
| Name         |                                    |                     |                        |
| Company      | Element Environment                | Element Environment | A W Edwards<br>Pty Ltd |
| Project Role | Senior Environmental<br>Consultant | Associate           | Project Director       |
| Signature    |                                    |                     |                        |
| Date         | 04 October 2022                    | 04 October 2022     | 04 October 2022        |

#### **DOCUMENT APPROVAL**

#### A W EDWARDS PTY LIMITED

A W EDWARDS HEAD OFFICE 131 SAILORS BAY ROAD | PO BOX 99 | NORTHBRIDGE NSW 1560 AUSTRALIA | P 02 8036 7200 MID NORTH COAST OFFICE UNIT 6/35 MERRIGAL RD PORT MACQUARIE NSW 2444 AUSTRALIA

E nsw@awedwards.com.au **P** 02 6581 5755 www.awedwards.com.au | **ABN** 76 000 045 849 | **ACN** 000 045 849



| REVISION | DATE               | STATUS              | AUTHOR                 | APPROVED<br>BY | COMMENTS  |
|----------|--------------------|---------------------|------------------------|----------------|---|
| 00       | 9 November<br>2020 | For Review          | Element<br>Environment |                | Initial version<br>for review                       |
| A        | 9 November<br>2020 | For Review          | Element<br>Environment |                | Revision figure<br>updated from<br>00 to A          |
| В        | 8 December<br>2020 | For Review          | Element<br>Environment |                | Revised in<br>response to<br>Sydney Metro<br>review |
| С        | 7 January<br>2021  | For Review          | Element<br>Environment |                | Revised in<br>response to<br>Sydney Metro<br>review |
| 00       | 09-Jun-21          | For<br>Construction | Darren<br>Green        |                | Update Contact details                              |
| 01       | 04-10-22           | For<br>Construction | Darren<br>Green        |                | Update Contact details                              |

\*Note Management Plan number has changed from SMCSWSCN-AWE-SCN-AN-PLN-0000020 to SMCSWSCN-AWE-SCN-EM-PLN-000025 to align with TeamBinder document numbering, at Rev B



AW EDWARDS acknowledges the Traditional Owners of Country throughout Australia and recognises the continuing connection to lands, waters and communities. We pay our respect to Aboriginal and Torres Strait Islander people and culture, and to their Elders past and present.

> "COMMUNITY" Artwork by Raechel Saunders

COPYRIGHT

This document remains the property of AW Edwards Pty Limited and all rights are reserved in respect of it. This document is not to be reproduced or photocopied in any unauthorised manner and is uncontrolled when printed



Dear

Suite 2.06, Level 2 29-31 Solent Circuit Norwest NSW 2153

Tel: 61 (02) 9659 5433 e-mail: <u>hbi@hbi.com.au</u> Web: www.hbi.com.au

22 February 2023

A/Associate Director Environment Environment Sustainability and Planning Sydney Metro Transport for NSW PO Box K659 HAYMARKET NSW 1240

Ref: CSWCNISD CSMP\_Rev1

#### RE: Approval of Minor Amendments to Sydney Metro City & Southwest – Crows Nest Integrated Station Development, Construction Spoil Management Plan Rev C

Thank you for providing the following document for Environmental Representative (ER) review and approval in accordance with MCoA A24(j) of the Sydney Metro City & Southwest Chatswood to Sydenham project (SSI – 15\_7400 February 2019).

• Sydney Metro City & Southwest – Crows Nest Station – Construction Spoil Management Plan, Revision 1 dated 4/10/2022 (CSMP Rev 1).

As an approved ER for the Sydney Metro City South West project, I have reviewed the following proposed minor amendments in CSMP Rev 1:

1. Updates to *Contacts* section

In my opinion, the proposed changes constitute a minor amendment pursuant MCoA A24(j). On this basis, I approve the amended *Construction Visual and Landscape Management Plan*, Revision 1 dated 4/10/2022 (CSMP Rev 1)

Yours sincerely



Environmental Representative - City and South West Sydney Metro



#### CONTENTS

| 1 |       | INTRODUCTION                                    | 6  |
|---|-------|---|----|
|   | 1.1   | BACKGROUND                                      | 6  |
|   | 1.2   | PURPOSE   | 6  |
|   | 1.3   | PROJECT OVERVIEW                                | 6  |
|   | 1.4   | OBJECTIVES                                      | 7  |
|   | 1.5   | CONSULTATION                                    | 7  |
|   | 1.6   | ENVIRONMENTAL MANAGEMENT STRUCTURE              | 7  |
|   | 1.7   | APPROVAL  | 8  |
| 2 |       | LEGAL AND OTHER REQUIREMENTS                    | 9  |
|   | 2.1   | PLANNING APPROVALS                              | 9  |
|   | 2.2   | LEGISLATION AND REGULATORY REQUIREMENTS         | 9  |
|   | 2.3   | GUIDELINES                                      | 10 |
|   | 2.4   | PROJECT APPROVAL REQUIREMENTS                   | 10 |
|   | 2.5   | CONSTRUCTION ENVIRONMENTAL MANAGEMENT FRAMEWORK | 12 |
| 3 |       | SPOIL CLASSIFICATION AND HIERARCHY              | 13 |
|   | 3.1   | WASTE MANAGEMENT HIERARCHY                      | 13 |
|   | 3.1.1 | Reduce or avoid                                 | 13 |
|   | 3.1.2 | Reuse and recycling                             | 13 |
|   | 3.1.3 | Waste handling and storage                      | 13 |
|   | 3.1.4 | Waste classification                            | 14 |
|   | 3.2   | WASTE STREAMS AND CLASSIFICATION                | 14 |
|   | 3.2.1 | Virgin excavated natural material               | 14 |
|   | 3.2.2 | Excavated natural material                      | 15 |
|   | 3.3   | OTHER WASTE CLASSIFICATIONS                     | 15 |
|   | 3.3.1 | Special waste                                   | 15 |
|   | 3.3.2 | Hazardous waste                                 | 15 |
|   | 3.3.3 | Restricted solid waste                          | 17 |
|   | 3.3.4 | General solid waste (non-putrescible)           | 17 |
|   | 3.3.5 | Resource recovery exemptions                    | 17 |
| 4 |       | SPOIL GENERATION                                | 18 |
|   | 4.1   | RE-USE OPTIONS AND TARGETS                      | 18 |
|   | 4.2   | SPOIL AND WASTE VOLUMES                         | 19 |
| 5 |       | POTENTIAL IMPACTS                               | 26 |
| 6 |       | SPOIL MANAGEMENT                                | 27 |
|   | 6.1   | SPOIL AND WASTE STORAGE                         | 27 |
|   | 6.2   | RE-USE AND DISPOSAL OPTIONS                     | 27 |

|   | 6.3     | UNEXPECTED CONTAMINATED LAND AND ASBESTOS FINDS |    |
|---|---------|---|----|
|   | PROCEDU | IRE   | 28 |
|   | 6.4     | TRANSPORT AND HAULAGE                           | 29 |
| 7 |         | COMPLIANCE MANAGEMENT                           | 30 |
|   | 7.1     | ROLES AND RESPONSIBILITIES                      | 30 |
|   | 7.2     | TRAINING  | 30 |
|   | 7.3     | MONITORING AND INSPECTIONS                      | 31 |
|   | 7.4     | NON-CONFORMANCES                                | 31 |
|   | 7.5     | COMPLAINTS                                      | 31 |
|   | 7.6     | AUDITS  | 31 |
|   | 7.7     | RECORD MANAGEMENT                               | 31 |
| 8 |         | REVIEW AND IMPROVEMENT                          | 32 |

AW EDWARDS

## AW EDWARDS

## **1** INTRODUCTION

#### 1.1 BACKGROUND

The Sydney Metro City & Southwest is a 30 kilometre metro rail between Chatswood and Bankstown, including; 17 kilometres of new tunnel from Chatswood, under the harbour to Sydenham connecting seven new underground stations at Crows Nest, Victoria Cross (North Sydney), Barangaroo, Pitt Street, Martin Place, Central and Waterloo. Upgrading 13 kilometres of the Bankstown line, including 11 existing stations; Sydenham, Marrickville, Dulwich Hill, Hurlstone Park, Canterbury, Campsie, Belmore, Lakemba, Wiley Park, Punchbowl and Bankstown plus southern service facilities.

Several separate environmental impact assessments of the project were progressed by Transport for NSW (TfNSW). In May 2016, an environmental impact statement (EIS) for the Chatswood to Sydenham section of the project (the EIS) was placed on public exhibition for 48 days. A preferred infrastructure report on the Chatswood to Sydenham component (the PIR) was prepared and publicly released in October 2016. The project was approved on 9 January 2017 (SSI 15\_7400) (project planning approval). Following approval, six modifications have been approved by NSW Department of Planning, Infrastructure and Environment (DPIE).

A W Edwards has been awarded the tender to construct Crows Nest Metro Station (the project).

#### 1.2 PURPOSE

This Construction Spoil Management Plan (CSMP) describes how A W Edwards will manage spoil generation and disposal during construction of the project. It describes legal, planning and contractual requirements and the spoil management measures.

This CSMP forms part of the Construction Environmental Management Plan (CEMP) for the project and was prepared in accordance with:

- The relevant planning approvals and conditions of approval (CoA) for the project (refer to Chapter 2);
- Applicable legislation and regulatory requirements;
- Sydney Metro Construction Environmental Management Framework Chatswood to Sydenham (CEMF);
- Revised Environmental Mitigation Measures (REMMs); and
- Sydney Metro contractual requirements, including the Project Deed and Scope of Work and Technical Criteria.

#### 1.3 **PROJECT OVERVIEW**

Crows Nest Station will be between the Pacific Highway and Clarke Lane (eastern side of the Pacific Highway) and between Oxley Street and south of Hume Street. It will be strategically located to the south of the existing station at St Leonards and close to the leisure and retail strip along Willoughby Road.

Crows Nest Station will support the St Leonards specialised centre as a southern gateway to commercial and mixed-use activities. The station will also improve access to the restaurants and specialist shops in the Crows Nest village. Crows Nest Station will:

 Create a new transport focus on the southern side of the St Leonards specialised centre.

AW EDWARDS

- Maximise legibility and connectivity with the local urban structure.
- Integrate the station with local improvement plans and make a positive contribution to the sense of place.

Refer to **Chapter 2** of the CEMP for detailed scope of work and construction methodology.

The haulage and delivery of spoil and material transport activities are permitted to be undertaken 24 hours per day, seven days a week in accordance with CoA E48.

#### 1.4 OBJECTIVES

The following spoil and waste management objectives, consistent with those described in Section 6.1 of the CEMF will be applied to the project:

- Minimise spoil generation where possible.
- Mandate the 100% reuse or recycling (on or off-site) of usable spoil.
- Manage spoil with consideration to minimising adverse traffic and transport related issues.
- Manage spoil with consideration of the impacts on residents and other sensitive receivers.
- Manage spoil to avoid the contamination of land and water.
- Site contamination will be managed effectively to limit the potential risk to human health and the environment.

This plan addresses and details the following issues:

- Excavation, handling, haulage, disposal and reuse, including on-site storage and stockpiling arrangements.
- Processes and procedures that will be used for the management of spoil, including those for virgin excavated natural material (VENM), excavated natural material (ENM), contaminated and unsuitable material.
- Measures that will be implemented to both reduce spoil quantities and maximise the beneficial reuse of spoil that will be generated during the performance of the works.
- Nominated quantities for reuse of spoil within the construction site, for beneficial reuse of spoil off site and for spoil disposal.
- Processes and procedures for the management of the environmental impacts of spoil transfer and reuse.

#### 1.5 CONSULTATION

In accordance with CoA C5, the CEMP sub-plans must be developed in consultation with relevant government agencies.

As this CSMP is not a requirement of a CoA, but rather the CEMF, no consultation with stakeholders is required.

#### 1.6 ENVIRONMENTAL MANAGEMENT STRUCTURE

This CSMP is part of A W Edward's environmental management framework for the project and is supported by other documents such as:



- Construction Environmental Management Plan (CEMP);
- Community and Stakeholder Engagement Plan; and
- Environmental Control Maps (ECMs), inclusive of relevant spoil and waste storage areas and management measures.

#### 1.7 APPROVAL

This CSMP will be reviewed by Sydney Metro, endorsed by the Environmental Representative (ER) and submitted to the Secretary of DPIE for approval in accordance with CoA C8.

This CSMP will be submitted for approval to the Secretary of DPIE no later than one month before commencement of construction of the project.

Construction will not commence until the CEMP and sub-plans (including this CSMP) have been approved.

## AW EDWARDS

## 2 LEGAL AND OTHER REQUIREMENTS

#### 2.1 PLANNING APPROVALS

Sydney Metro City & Southwest has been declared as critical State significant infrastructure (CSSI) under Division 5.2 of the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) and State Environmental Planning Policy (State and Regional Development) 2011. There are two CSSI planning approvals for Sydney Metro City & Southwest:

- Construction and operation of the section between Chatswood and the Sydenham dive site known as "CSSI\_7400", which was granted on 9 January 2017. Several modifications to CSSI\_7400 have since been approved. A W Edwards will be required to comply with CSSI\_7400, including the modifications to this approval, to the extent required by Sydney Metro.
- The section of the rail corridor between Sydenham and Bankstown and is known as "CSSI\_8256" and does not have any requirements that are relevant to the project.

Any future amendments to the CSSI approval (Chatswood to Sydenham) will be subject to Sydney Metro approval and will continue to be managed and lodged by Sydney Metro.

The environmental assessments relevant to the project, which have been referenced during the preparation of this CEMP are:

- Sydney Metro City & Southwest Chatswood to Sydenham Environmental Impact Statement (May 2016).
- Sydney Metro City & Southwest Crows Nest Over Station Development Environmental Impact Statement (November 2018).
- Minor Works Approval for Enabling Works (CN-PCMW-001 Site Establishment Works) – April 2020.

#### 2.2 LEGISLATION AND REGULATORY REQUIREMENTS

Applicable legislation is summarised in Table 2.1.

| Tabl | le 2. | 1: L | eaislation |
|------|-------|------|------------|
|      | ~     |      |            |

| LEGISLATION   | DESCRIPTION   | RELEVANCE   |
|---|---|---|
| NSW Environmental<br>Planning<br>and Assessment Act<br>1979 | This Act establishes a system of<br>environmental planning and<br>assessment for development of<br>the State.   | The approval conditions<br>and obligations are<br>incorporated into this<br>CSMP.   |
| NSW Contaminated Land<br>Management Act 1997                | This Act provides for a process to<br>investigate and remediate land<br>that has been contaminated and<br>presents a significant risk of harm<br>to human health. Section 60 of<br>the Act is a "Duty to Report<br>Contamination". This duty applies<br>to owners of land and persons<br>who become aware their activities<br>have contaminated the land. | This plan discusses how<br>A W Edwards will manage<br>works to comply with this<br>Act for any potentially<br>contaminated spoil<br>encountered during<br>construction. |
| NSW Protection of the<br>Environment Operations<br>Act 1997 | This Act includes all the controls<br>necessary to regulate pollution<br>and reduce degradation of the<br>environment, provides for   | This plan defines how A<br>W Edwards will manage<br>works to comply with this<br>Act and minimise the   |



AW EDWARD

#### 2.3 GUIDELINES

Guidelines and standards relating to the management of spoil are:

- Waste Classification Guidelines: Part 1 Classifying Waste (EPA 2014).
- NSW Protection of the Environment Operations (Waste) Regulation 2014.
- NSW EPA orders and exemptions: https://www.epa.nsw.gov.au/yourenvironment/recycling-and-reuse/resource-recovery-framework/current-ordersand-exemption.

#### 2.4 PROJECT APPROVAL REQUIREMENTS

This CSMP has been produced to demonstrate compliance with the relevant CoA stipulated in SSI\_7400, as summarised in Table 2.2.

The CoA relevant to the project have been confirmed via the Sydney Metro Chatswood to Sydenham Staging Report (Sydney Metro, 2019)

#### Table 2.2: CoA requirements

| ITEM | REQUIREMENT   | DOCUMENT<br>REFERENCE   |
|------|---|---|
| E48  | Notwithstanding Condition E36 of this approval and subject to<br>Condition E47, the following activities may be undertaken 24<br>hours per day, seven (7) days per week:<br>(a) tunnelling and associated support activities (excluding cut<br>and cover tunnelling, and excluding the installation and<br>decommissioning of the Blues Point acoustic shed except<br>where compliance with Condition E44 is achieved);<br>(b) excavation within an acoustic enclosure (excluding the<br>Blues Point temporary site except where compliance with<br>Condition E44 is achieved);<br>(c) excavation at Central (excluding Central Walk works at 20-<br>28 Chalmers Street, Surry Hills) without an acoustic enclosure;<br>(d) station and tunnel fit out; and<br>(e) haulage and delivery of spoil and materials. | Section 1.3<br>Construction<br>Noise and<br>Vibration<br>Management Plan<br>Sydney Metro Out<br>of Hours Work<br>Protocol |
| E66  | A Site Contamination Report, documenting the outcomes of<br>Phase 1 and Phase 2 contamination assessments of land upon<br>which the CSSI is to be carried out, that is suspected to be, or<br>known to be, contaminated must be prepared by a suitably<br>qualified and experienced person in accordance with<br>guidelines made or approved under the Contaminated Land<br>Management Act 1997 (NSW).  | Not applicable –<br>station excavation<br>completed   |
| E67  | If a Site Contamination Report prepared under Condition E66<br>finds such land contains contamination, a site audit is required<br>to determine the suitability of a site for a specified use. If a site<br>audit is required, a Site Audit Statement and Site Audit Report<br>must be prepared by a NSW EPA Accredited Site Auditor.<br>Contaminated land must not be used for the purpose approved<br>under the terms of this approval until a Site Audit Statement is<br>obtained that declares the land is suitable for that purpose and<br>any conditions on the Site Audit Statement have been<br>complied with.  | Not applicable –<br>station excavation<br>completed   |
| E68  | A copy of the Site Audit Statement and Site Audit Report must<br>be submitted to the Secretary and Council for information no<br>later than one (1) month before the commencement of<br>operation.  | Not applicable –<br>station excavation<br>completed   |
| E69  | An Unexpected Contaminated Land and Asbestos Finds<br>Procedure must be prepared and must be followed should<br>unexpected contaminated land or asbestos be excavated or<br>otherwise discovered during construction.   | Section 6.3   |
| E70  | The Unexpected Contaminated Land and Asbestos Finds<br>Procedure must be implemented throughout construction.   | Section 6.3   |
| E106 | Waste generated during construction and operation is to be<br>dealt with in accordance with the following priorities:<br>(a) waste generation is to be avoided and where avoidance is<br>not reasonably practicable, waste generation is to be reduced;<br>(b) where avoiding or reducing waste is not possible, waste is<br>to be re-used, recycled, or recovered; and<br>(c) where re-using, recycling or recovering waste is not<br>possible, waste is to be treated or disposed of.   | Chapters 3, 4 and 6   |

AW EDWARDS

#### CONSTRUCTION ENVIRONMENTAL MANAGEMENT FRAMEWORK 2.5

This CSMP has been produced to demonstrate compliance with the Sydney Metro Construction Environmental Management Framework as summarised in Table 2.3.

#### Table 2.3: CEMF requirements

| ITEM    | REQUIREMENT  | DOCUMENT<br>REFERENCE       |
|---------|--|-----------------------------|
| 6.1 (a) | Minimise spoil generation where possible.  | Section 4.1                 |
|         | The project will mandate 100% reuse or recycling (on or off-<br>site) of usable spoil.   | Section 4.1                 |
|         | Spoil will be managed with consideration to minimising adverse traffic and transport related issues.   | Section 6.4                 |
|         | Spoil will be managed to avoid contamination of land or water.   | Section 6.3                 |
|         | Spoil will be managed with consideration of the impacts on residents and other sensitive receivers.  | Section 3.1.3 & Section 6.4 |
|         | Site contamination will be effectively managed to limit the potential risk to human health and the environment.  | Section 6.3                 |
|         | The Spoil Management Plan will include as a minimum:   |                             |
|         | The spoil mitigation measures as detailed in the environmental approval documentation.   | Chapter 6                   |
|         | A link or reference to where traffic movements in relation to spoil are described.   | Section 6.4<br>Refer CTMP   |
| 6.2 (a) | A register of spoil receipt sites that includes the site or project<br>name, location, capacity, site owner and which tier the site is<br>classified as under the spoil reuse hierarchy.               | Section 6.2                 |
|         | The responsibilities of key project personnel with respect to the implementation of the plan.  | Section 7.1                 |
|         | Procedures for the testing, classification, handling and reuse of spoil.   | Chapter 6                   |
|         | Spoil management monitoring requirements.  | Section 7.3                 |
|         | Compliance record generation and management.   | Section 7.7                 |
|         | Spoil management measures will be included in regular<br>inspections undertaken by the Contractor, and compliance<br>records will be retained. These will include:                                     | Section 7.7                 |
| 0.2 (D) | Records detailing the beneficial re-use of spoil either within the project or at off-site locations; and Waste dockets for any spoil disposed of to landfill sites.                                    |                             |
|         | Spoil mitigation measures:   |                             |
| 6.3     | <ul> <li>Implementing the spoil re-use hierarchy.</li> <li>Handling spoil to minimise potential for air or water pollution.</li> <li>Minimise traffic impacts associated with spoil removal</li> </ul> | Chapters 4 and 6            |

Minimise traffic impacts associated with spoil removal.

AW EDWARDS

**Construction Spoil Management Plan** 

## 3 SPOIL CLASSIFICATION AND HIERARCHY

#### 3.1 WASTE MANAGEMENT HIERARCHY

The *Waste Avoidance and Resource Recovery Act 2001* ensures that resource management options are considered against a hierarchy of:

- Avoidance of unnecessary resource consumption;
- Resource recovery (including reuse, recycling, reprocessing, and energy recovery); and
- Disposal.

The approach to the steps in the waste hierarchy most relevant to the project is briefly described below.

#### 3.1.1 Reduce or avoid

Reducing or avoiding the generation of waste is of primary importance to the project. The following approach will be adopted:

- Consider construction options that have a higher waste reduction capacity than alternatives;
- Order material / goods with minimal packaging or request suppliers to remove packaging from site; and
- Accurately estimate materials required to minimise wastage of product.

#### 3.1.2 Reuse and recycling

Waste separation and segregation will be promoted on-site to facilitate reuse and recycling as a priority of the waste management program as follows:

- Segregate waste on-site waste materials, including spoil and demolition waste, will be separated into dedicated bins / areas for either reuse on-site or collection by a waste contractor and transported to off-site facilities;
- Separate waste off-site wastes will be deposited into one bin where space is not available for placement of multiple bins, and the waste will be sorted off-site by a waste contractor; and
- Where feasible and reasonable, secondary waste material would be used in construction.

#### 3.1.3 Waste handling and storage

Where waste is required to be handled and stored onsite prior to onsite reuse or offsite recycling / disposal, the following measures will apply:

- Spoil will be stockpiled on-site in allocated areas, where appropriate, and mitigation measures for dust control and surface water management will be implemented in accordance with the CEMP;
- Asbestos containing materials and waste would be investigated, managed, handled and disposed by a suitably qualified and experienced occupational hygienist. The disturbance of, handling and disposal of any asbestos containing materials would be undertaken by an appropriately licenced asbestos removal contractor in accordance applicable SafeWork NSW and EPA requirements and guidelines;
- Liquid wastes will be stored in appropriate containers in bunded areas until transported off-site. Bunded areas will have the capacity to hold 110% of the

AW EDWARDS

liquid waste volume for bulk storage or 120% of the volume of the largest container for smaller packaged storage;

- Hazardous waste will be managed by the appropriately qualified and licensed contractors, in accordance with the requirements of the NSW Contaminated Land Management Act 1997, Environmentally Hazardous Chemicals Act 1985 and the EPA waste disposal guidelines; and
- All other recyclable or non-recyclable wastes will be stored in appropriate covered receptacles (e.g. bins or skips) in appropriate locations on-site and subcontractors commissioned to regularly remove / empty the bins to approved disposal or recycling facilities.

#### 3.1.4 Waste classification

Where waste cannot be avoided, reused or recycled it will be classified and appropriately disposed of. The classification of waste will be undertaken in accordance with the NSW *Waste Classification Guidelines Part 1: Classifying Waste* (EPA, 2014). This document identifies six classes of waste: Special, Liquid, Hazardous, Restricted Solid, General Solid (putrescible) and General Solid (non-putrescible) and describes a six-step process to classifying waste.

The general classification principles are as follows:

- If a special waste is mixed with another waste, the waste must be managed to meet the requirements of both the special wastes and the other class of waste.
- If asbestos waste is mixed with any other class of waste, all the waste must be classified as asbestos waste.
- If liquid waste is mixed with hazardous or solid waste and retains the defined characteristics of liquid waste, it remains liquid waste.
- Two or more classes of waste must not be mixed to reduce the concentration of chemical contaminants. Dilution is not an acceptable waste management option.
- Where practicable, it is desirable to separate a mixture of wastes before classifying them.

#### 3.2 WASTE STREAMS AND CLASSIFICATION

Spoil is defined as any earthen material that is surplus to requirements or unsuitable for onsite reuse.

Spoil (other than VENM) will be sampled, analysed and characterised in accordance with the *Waste Classification Guidelines: Part 1 Classifying Waste* (EPA 2014) (the Guidelines).

There are resource recovery exemptions in place for VENM and Excavated Natural Material (ENM), which are summarised below. Topsoil is unlikely to be encountered given existing surface disturbance.

General construction waste would be minimised by accurately calculating materials brought to the site and limiting material packaging, with any related waste classified and disposed of in accordance with the Waste Classification Guidelines.

#### 3.2.1 Virgin excavated natural material

Virgin excavated natural material is defined as natural material (such as clay, gravel, sand, soil or rock fines) that has been excavated or quarried from areas that are not contaminated

with manufactured chemicals or with process residues as a result of industrial, commercial, mining or agricultural activities.

AW EDWARDS

The following questions will be used when classifying material as VENM:

- Are manufactured chemicals or process residues present?
- Are sulfidic ores or soil present?
- Are naturally occurring asbestos soils present?
- Is there any other waste present?

If material meets the definition of VENM it can be reused on or offsite without prior testing. However, if there is any doubt as to whether the material is VENM, the Planning and Environment Manager will arrange for sampling and analysis of the material against the excavated natural material (ENM) resource recovery order (The excavated natural material order 2014) to confirm that the material is free of contaminants.

#### 3.2.2 Excavated natural material

Spoil material which does not meet the definition of VENM is likely to be classified as ENM in accordance with the resource recovery order for ENM declared under the Protection of the Environment Operations (Waste) Regulation 2014.

ENM is defined as naturally occurring rock or soil (including but not limited to materials such as sandstone, shale, clay and soil) that has:

- Been excavated from the ground.
- Contains at least 98% by weight natural material.
- Does not meet the definition of VENM in the Act.

ENM does not include material that has been processed or contains acid sulphate soils or potentially acid sulphate soils.

To be classified as ENM, the material must be sampled and analysed in accordance with the requirements of the resource recovery order and satisfy the criteria contained within.

#### 3.3 OTHER WASTE CLASSIFICATIONS

Spoil not classified as either VENM or ENM due to contamination from either construction material or other sources shall be characterised in accordance with the *Waste Classification Guidelines: Part 1 Classifying Waste* (EPA 2014). This may include classification as general solid waste (Non-putrescible), restricted solid waste, hazardous waste or special waste.

#### 3.3.1 Special waste

Special waste is a class of waste that has unique regulatory requirements. The potential environmental impacts of special waste need to be managed to minimise the risk or harm to the environment or human health.

Special waste is defined as any of the following:

- Clinical and related waste.
- Asbestos waste.
- Waste tyres.
- Anything classified as special waste under an EPA gazettal notice.

#### **3.3.2 Hazardous waste**

The following waste types (other than special waste or liquid waste) have been pre-classified by the EPA as 'hazardous waste':

 Containers, having previously contained a substance of class 1, 3, 4, 5 or 8 within the meaning of the *Transport of Dangerous Goods Code*, or a substance to which Division 6.1 of the *Transport of Dangerous Goods Code* applies, from which residues have not been removed by washing or vacuuming.

AW EDWARDS

- Coal tar or coal tar pitch waste (being the tarry residue from the heating, processing or burning of coal or coke) comprising of more than 1% (by weight) of coal tar or coal tar pitch waste.
- Lead-acid or nickel-cadmium batteries (being waste generated or separately collected by activities carried out for business, commercial or community services purposes).
- Lead paint waste arising otherwise than from residential premises or educational or childcare institutions.
- Any mixture of the wastes referred to above.

#### **3.3.3** Restricted solid waste

Currently, no wastes have been pre-classified by the EPA as 'restricted solid waste'. Restricted solid waste therefore only includes wastes assessed and classified as restricted solid waste in accordance with the procedures outlined under Step 5 of the *Waste Classification Guidelines: Part 1 Classifying Waste* (EPA 2014). That is, where waste has not been classified under steps 1-4, waste generators must chemically assess their waste to determine the most appropriate waste classification within the EPA guideline by utilising the specific contaminant concentration (SCC) and/or toxicity characteristics leaching procedure (TCLP) test values.

AW EDWARDS

If the waste is not chemically assessed then the waste must be treated as hazardous waste and must be treated prior to disposal at an appropriate licenced location.

#### 3.3.4 General solid waste (non-putrescible)

General solid waste (non-putrescible) is any waste that is not classified as special waste, liquid waste, hazardous waste, restricted solid waste or general solid waste (putrescible).

#### 3.3.5 Resource recovery exemptions

The Protection of the Environment Operations (Waste) Regulation 2014 enables the EPA to issue 'resource recovery exemptions' which allow for the beneficial reuse of wastes via land application or for use as a fuel.

These exemptions enable a project to comply with the principle of 'wastes to resources for beneficial reuse' (where the wastes are fit for beneficial reuse). During the project, materials may be encountered that do not meet the VENM or ENM classification but are also not contaminated material. In these circumstances, the project team will check for existing resource recovery exemptions such as:

- The excavated public road material exemption 2014.
- The reclaimed asphalt pavement exemption 2014.
- The recovered aggregate exemption 2014.
- Raw mulch material exemption 2014.

## AW EDWARDS

## 4 SPOIL GENERATION

#### 4.1 **RE-USE OPTIONS AND TARGETS**

If spoil is generated during construction, it is anticipated to be crushed sandstone and shale which would be classified as 'virgin excavated natural material' (VENM).

While the project would target 100% of beneficial re-use of the usable spoil generated during construction, it is recognised that there would be very limited opportunities for onsite spoil reuse as the project has very limited onsite requirements for fill and space at the site is limited.

Spoil generated by surface works such as utility relocation is likely to suit classification as ENM or general solid waste and may be re-used as backfill of the excavation, however some residual spoil may be generated. Any residual spoil would be adequately tested to determine waste classification prior to disposal.

Where spoil cannot be re-used for the project, opportunities to re-use this material on other developments (preferably within the Sydney region to reduce transport distances) would be investigated.

The spoil produced by the project may have the following potential re-use opportunities:

- Clean granular fill is likely to be suitable for use as structural fill;
- Excavated moist clay and clayey sand material is likely to be suitable for use as general fill following moisture conditioning;
- Excavated weathered shale and sandstone could be suitable for use as structural fill following moisture conditioning to reduce reactivity;
- Medium strength or better-quality shale is likely to be suitable for use as nonreactive fill;
- Medium to high strength sandstone may be suitable for use as structural fill; and
- Wet clay and wet shale spoil are unlikely to be suitable for re-use on site without substantial moisture conditioning.

The geology of the spoil material, as well as its consistency and quality would determine the re-use options.

The spoil management hierarchy in Table 4.1 has been prepared with reference to the NSW *Waste Avoidance and Resource Recovery Act 2001* and the *NSW Waste Avoidance and Resource Recovery Strategy 2013-2021* to guide spoil re-use and disposal.

Table 4.1: Spoil management hierarchy

|    | OPTION  | DESCRIPTION   | POTENTIAL FOR USE        |
|----|---|---|--------------------------|
| 1. | Avoid and reduce spoil generation             | Reduce the amount of spoil being generated through design and construction methodology.   | Limited                  |
| 2. | Reuse in construction                         | Reuse spoil for engineering fill.<br>Reuse spoil to restore any pre-<br>existing contaminated sites within<br>the project site.<br>Reuse spoil as a feed product in<br>construction materials.          | Limited                  |
| 3. | Reuse for<br>environmental<br>works           | Reuse spoil in native vegetation<br>rehabilitation projects.<br>Reuse spoil for coastal protection,<br>such as beach nourishment and<br>land raising.<br>Reuse spoil in flood mitigation<br>projects.   | Limited                  |
| 4. | Reuse on in other<br>construction<br>projects | Reuse for engineering fill on<br>projects within an economic<br>transport distance from site.<br>Reuse sand for manufacturing<br>concrete and reuse shale for<br>manufacturing bricks/ tiles.           | Preferred                |
| 5. | Reuse for land restoration                    | Reuse for land reclamation or<br>remediation works<br>Reuse to fill disused facilities, e.g.<br>mines and quarries, to enable<br>ecological rehabilitation or other<br>ecologically beneficial end use. | Preferred                |
| 6. | Reuse for landfill management                 | Reuse to cap completed landfill<br>cells.<br>Reuse in daily covering of landfill<br>waste.  | Limited                  |
| 7. | Offsite waste<br>disposal                     | Disposal of excess spoil as waste<br>at an approved facility licenced to<br>receive the material.   | Likely but not preferred |

AW EDWARDS

#### 4.2 SPOIL AND WASTE VOLUMES

A W Edwards has estimated the project may generate up to 800 cubic metres of VENM and 3,500 cubic metres of general solid waste (non-putrescible) during construction.

The types of spoil and other waste that may be generated during construction are outlined in Table 4.2. This table also identifies preferred reuse, recycling and disposal methods for each waste stream.



| Table 4.2: Waste streams, classification and management options     |                                  |  |   |  |
|---|----------------------------------|--|---|--|
| CONSTRUCTI<br>ON ACTIVITY   | WASTE<br>TYPE                    | WASTE<br>CLASSIFICATI<br>ON              | PROPOSED STORAGE<br>AND RE USE<br>/RECYCLING /DISPOSAL<br>METHODS   |  |
| Geotechnical<br>investigations and<br>non-destructive<br>excavation | Drilling mud or<br>liquid waste  | Subject to chemical assessment           | Storage/collection – Drilling mud is<br>to be extracted via sealed vacuum<br>tanker by an appropriately licenced<br>contractor and analysed against the<br>Resource Recovery Exemption<br>requirements for treated drilling<br>mud.<br>Reuse off site – In the event the<br>drilling mud is compliant with the<br>exemption requirements, the<br>appropriately licenced contractor is<br>to transport the material via vacuum<br>tanker to their licenced facility for<br>application of the treated drilling<br>mud to land. The facility should be<br>appropriately licenced via an<br>Environment Protection Licence<br>(EPL).<br>Disposal – In the event the drilling<br>mud is not compliant with the<br>exemption requirements, the<br>licenced contractor would transport<br>the material to an appropriately<br>licenced facility permitted to accept<br>liquid waste for appropriate |  |
| General demolition  | Concrete,<br>bricks,<br>ceramics | General solid waste<br>(non-putrescible) | Reuse onsite - If suitable, crush<br>and use as backfill/road base.<br>Storage/Collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.<br>Resource recovery off site – the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.<br>Reuse off site – apply concrete to<br>land where there is full compliance<br>with The Recovered Aggregate<br>Exemption.  |  |
|   | Asphalt                          | General solid waste<br>(non-putrescible) | Reuse onsite - If suitable, crush<br>and use as backfill/road base.<br>Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.<br>Resource recovery off site – the<br>waste contractor would collect the<br>skip bin and transport to a licenced   |  |



| WASTE<br>TYPE         WASTE<br>CLASSIFICATI<br>ON         AND RE USE<br>(RECYCLING /DISPOSAL<br>/RECYCLING /D |           |             |                     | PROPOSED STORAGE  |
|---|-----------|-------------|---------------------|---|
| ON ACTIVITY         TYPE         CLASSIFICATI<br>ON         /RECYCLING /DISPOSAL<br>METHODS           waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.<br>Reuse off site – apply asphalt to<br>land where there is full compliance<br>with The Recovered Aggregate<br>Exemption.           Concrete<br>slurry         Liquid waste         Storage/collection – Concrete<br>slurry is to be extracted via sealed<br>wet vacuum or vacuum tarker by an<br>appropriately licenced contractor.<br>Disposal – the licenced contractor.<br>Disposal – the licenced contractor.<br>Disposal – the licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriately licenced within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Storage/collection – Absetsot<br>waste are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Asbestos         Special waste         Storage/collection – Absetsot<br>waste are to be stored within<br>designated skip bins on-site for<br>collection by an appropr   | CONSTRUCT | WASTE       | WASIE               | AND RE USE  |
| ON ACTIVITY         ON         METHODS           waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.<br>Reuse off site - apply asphalt to<br>land where there is full compliance<br>with The Recovered Aggregate<br>Exemption.           Concrete<br>slurry         Liquid waste         Storage/collection - Concrete<br>slurry is to be extracted via sealed<br>wet vacuum or vacuum tanker by an<br>appropriately licenced contractor.<br>Disposal - the licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriate disposal.           Scrap metal         General sold waste<br>(non-putrescible)         Storage/collection - General sold<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General sold waste<br>(non-putrescible)         Storage/collection - General sold<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General sold waste<br>(non-putrescible)         Storage/collection - General sold<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Asbestos         Special waste         Storage/collection - General sold<br>waste nanagement<br>contractor.           Asbestos         Special waste         Storage/collection - General sold<br>waste is to be left in-situ and<br>adequately socure for collection by<br>an appropriately licenced wastestesan<br>and dispose the waste at an<br>appropriately licenced wa  |           | TYPE        | CLASSIFICATI        | <b>/RECYCLING /DISPOSAL</b>                                       |
| Waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.<br>Reuse off site – apply asphalt to<br>land where there is full compliance<br>with The Recovered Aggregate<br>Exemption.         Concrete<br>slurry       Liquid waste       Storage/collection – Concrete<br>slurry is to be extracted via sealed<br>wet vacuum or vacuum tanker by an<br>appropriately licenced contractor.<br>Disposal – the licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriate disposal.         Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection – General solid<br>wastes are to be stored waste<br>nanagement facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adquately secured for collection by<br>an appropriately licenced wastes facility for<br>reuse, recycling, reprocessing of<br>energy recovery in accordance with<br>the Waste Classification Gui   | UNACTIVIT |             | ON                  | METHODS   |
| Concrete       Liquid waste         Storage/collection - Concrete         slurry       Liquid waste         Storage/collection - Concrete         slurry       Storage/collection - Concrete         slurry       Storage/collection - Concrete         slury       Storage/collection - Concrete         sury       Storage/collection - Concrete         sury       Storage/collection - General solid         waste       Storage/collection - General solid         waste       Storage/collection - General solid         store       Storage/collection - General solid         waste       Storage/collection - General solid         waste       Storage/collection - General solid         waste       Storage/collectin - General solid         waste   |           |             |                     | waste management facility for                                     |
| Concrete       Liquid waste       Reuse off site - apply asphalt to land where there is full compliance with the Recovered Aggregate Exemption.         Concrete       Liquid waste       Storage/collection - Concrete slurry is to be extracted via sealed wet vacuum tanker by an appropriately licenced contractor. Disposal - the licenced contractor would transport the material to an appropriately licenced facility permitted to accept liquid waste for appropriate disposal.         Scrap metal       General solid waste (non-putrescible)       Storage/collection - General solid waste for appropriate disposal.         Scrap metal       General solid waste (non-putrescible)       Storage/collection to - General solid waste for appropriate disposal.         Scrap metal       General solid waste (non-putrescible)       Storage/collection to a appropriate for collection by an approprisete for collection by an appropriate for col   |           |             |                     | reuse, recycling, reprocessing or                                 |
| Concrete       Liquid waste       Storage/collection - Concrete         slurry       Liquid waste       Storage/collection - Concrete         slurry       General sold waste         Scrap metal       General sold waste         (non-putrescible)       Storage/collection - General sold         waste are to be stored within       designated skip bins on-site for<br>collection by an appropriately licenced waste         Glass       General sold waste       Storage/collection - General sold         (non-putrescible)       Storage/collection - General solid         waste sare to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Storage/collection - Asbestos       St   |           |             |                     | energy recovery in accordance with                                |
| Reuse of site – apply asphal to<br>land where there is full compliance<br>with The Recovered Agregate<br>Exemption.           Concrete<br>slurry         Liquid waste         Storage/collection – Concrete<br>slurry is to be extracted via sealed<br>wet vacuum or vacuum tanker by an<br>appropriately licenced contractor<br>would transport the material to an<br>appropriately licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriate disposal.           Scrap metal         General solid waste<br>(non-putrescible)         Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery off site - the<br>waste contractor.           Resource recovery off site - the<br>waste contractor.         Resource recovery off site - the<br>waste contractor.           Asbestos         Special waste         Storage/collection – General solid<br>wastes are to be stored within<br>the Waste Classification Guidelines.           Asbestos         Special waste         Storage/collection – Sensets<br>waste is to be left in-situ and<br>adequately secured for collectho<br>skip bin and transport to a licenced<br>waste are   |           |             |                     | the Waste Classification Guidelines.                              |
| Iand where there is full compliance<br>with The Recovered Aggregate<br>Exemption.         Concrete<br>slurry       Liquid waste       Storage/collection – Concrete<br>slurry is to be extracted via sealed<br>wet vacuum or vacuum tanker by an<br>appropriately licenced contractor.<br>Disposal – the licenced contractor<br>would transport the material to an<br>appropriately plesosal.         Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Asbestos       Special waste       Storage/collection – General solid<br>waste sto be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Asbestos       Special waste       Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor. <t< th=""><th></th><th></th><th></th><th>Reuse off site – apply asphalt to</th></t<>   |           |             |                     | Reuse off site – apply asphalt to                                 |
| Concrete<br>slurry       Liquid waste       Storage/collection - Concrete<br>slury is to be extracted via sealed<br>wet vacuum or vacuum tanker by an<br>appropriately licenced contractor.<br>Disposal - the licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriatel disposal.         Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site - the licensed   |           |             |                     | land where there is full compliance                               |
| Concrete<br>slury         Liquid waste         Storage/collection - Concrete<br>slury is to be extracted via sealed<br>wet vacuum or vacuum tanker by an<br>appropriately licenced contractor.<br>Disposal - the licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriate disposal.           Scrap metal         General solid waste<br>(non-putrescible)         Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Storage/collection - General solid<br>waste management<br>contractor.           Glass         General solid waste<br>(non-putrescible)         Storage/collection - General solid<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance within<br>the Waste Classification Guidelines.           Glass         General solid waste<br>(non-putrescible)         Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.           Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance within<br>the Waste Classification Guidelines.           Asbestos         Special waste         Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>an   |           |             |                     | with The Recovered Aggregate<br>Exemption.                        |
| slurry       slurry is to be extracted via sealed         we vacuum or vacuum tanker by an appropriately licenced contractor.       Disposal – the licenced contractor would transport the material to an appropriate disposal.         Scrap metal       General solid waste (non-putrescible)       Storage/collection – General solid waste for collection by an appropriately licenced diskip bins on-site for collection by an appropriately licenced waste management contractor.         Resource recovery off site - the waste contractor would collect the skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Glass       General solid waste (non-putrescible)         Storage/collection – General solid waste (non-putrescible)       Storage/collection – General solid waste (non-putrescible)         Resource recovery in accordance with the Waste Classification Guidelines.       Storage/collection – General solid waste (non-putrescible)         Asbestos       Special waste       Storage/collection – General solid waste (non-putrescible)         Asbestos       Special waste       Storage/collection – General solid waste (non-putrescible)         Asbestos       Special waste       Storage/collection – General solid waste (non-putrescible)         Disposal of Fsite – the waste contractor would collect the skip bin and transport to a licenced waste management acolid the skip bin and transport to a licenced waste management acolid the skip bin and transport to a licenced waste management acolid waste (non-putre  |           | Concrete    | Liquid waste        | Storage/collection - Concrete                                     |
| Meet vacuum anker by an appropriately licenced contractor.       Disposal - the licenced contractor.         Disposal - the licenced contractor.       would transport the material to an appropriately licenced facility permitted to accept liquid waste for appropriate disposal.         Scrap metal       General solid waste (non-putrescible)       Storage/Collection - General solid wastes are to be stored within designated skip bins on-site for collection by an appropriately licenced waste management contractor.         Resource recovery off site - the waste contractor would collect the skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Glass       General solid waste (non-putrescible)         Glass       General solid waste (non-putrescible)         Asbestos       Special waste  |           | slurry      |                     | slurry is to be extracted via sealed                              |
| Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Asbestos       Special waste       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site - the licensed<br>contractor is to collect, transport<br>and dispose the waste an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | appropriately licenced contractor                                 |
| Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection - General solid<br>waste management<br>contractor.         Resource recovery of site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site - the licensed<br>contractor.       Disposal off-site - the licensed<br>contractor.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to   |           |             |                     | <b>Disposal –</b> the licenced contractor                         |
| Scrap metal       General solid wasts<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste classification Guidelines.         Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | would transport the material to an                                |
| Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Glass       General solid waste<br>(non-putrescible)       Storage/collection - General solid<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Storage/collection - General solid<br>waste management<br>contractor.       Storage/collection - General solid<br>waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Asbestos       Special waste       Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | appropriately licenced facility                                   |
| Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management<br>contractor.         Asbestos       Special waste   |           |             |                     | permitted to accept liquid waste for                              |
| Scrap metal       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Asbestos       Special waste       Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Asbestos       Special waste       Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licensed asbestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | appropriate disposal.   |
| (non-putrescible)wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.GlassGeneral solid waste<br>(non-putrescible)GlassGeneral solid waste<br>(non-putrescible)Storage/collection - General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.Resource recovery off site - the<br>wastes contractor would collect the<br>skip bin and transport to a licenced<br>waste management<br>contractor.AsbestosSpecial wasteAsbestosSpecial wasteSpecial wasteStorage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced abestos<br>removal contractor.Disposal off-site - the licensed<br>contractor.Disposal off-site - the licensed<br>contractor.Disposal off-site - the licensed<br>contractor is to collect, transport<br>and dispose the waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           | Scrap metal | General solid waste | Storage/collection - General solid                                |
| designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.       Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management<br>contractor.         Asbestos       Special waste         Asbestos       Special waste         Asbestos       Special waste         Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced abestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             | (non-putrescible)   | wastes are to be stored within                                    |
| Class       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>waste management<br>contractor.         Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management<br>contractor.         Asbestos       Special waste         Asbestos       Special waste         Asbestos       Special waste         Storage/collection - Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced absestos<br>removal contractor.         Disposal off-site - the licensed<br>contractor is to collect, transport<br>and dispose the waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | designated skip bins on-site for                                  |
| Asbestos       Special waste         Asbestos       Special waste         Asbestos       Special waste         Special waste       Storage/Collection – Asbestos waste facility for reuse, recovery off site - the waste classification Guidelines.         Glass       General solid waste (non-putrescible)         Glass       General solid waste (non-putrescible)         Storage/Collection – General solid waste (non-putrescible)       Storage/Collection – General solid waste ob a appropriately licenced waste management contractor.         Resource recovery off site - the waste contractor would collect the skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Asbestos       Special waste         Asbestos       Special waste         Storage/Collection – Asbestos waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor.         Disposal off-site – the licensed contractor is to collect, transport and dispose the waste facility in accordance with the premises' Environment Protection Licence. The asbestos waste is to be tracked and all dockets and receipts retained.   |           |             |                     | licenced waste management   |
| Asbestos       Special waste       Resource recovery off site - the         waste contractor would collect the       skip bin and transport to a licenced         waste management facility for       reuse, recycling, reprocessing or         menergy recovery in accordance with       the Waste Classification Guidelines.         Glass       General solid waste       Storage/collection – General solid         wastes are to be stored within       designated skip bins on-site for       collection by an appropriately         licenced waste management       contractor.       Resource recovery off site - the         waste classification Guidelines.       waste stare to be stored within         designated skip bins on-site for       collection by an appropriately         licenced waste management       contractor.         Resource recovery off site - the       waste management facility for         reuse, recycling, reprocessing or       energy recovery in accordance with         the Waste Classification Guidelines.       waste management facility for         reuse, recycling, reprocessing or       energy recovery in accordance with         skip bin and transport to a licenced       waste sto be leftin-situ and         adequately secured for collection by       an appropriately licenced asbestos         reuse, recycling, reprocessing or       energy recovery in accordance with <tr< td=""><th></th><td></td><td></td><td>contractor.</td></tr<>  |           |             |                     | contractor.   |
| Asbestos       Special waste       Storage/collection – General solid waste         Asbestos       Special waste       Storage/collection – General solid waste         Image: Collection of the store   |           |             |                     | Resource recovery off site - the                                  |
| Skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Glass       General solid waste (non-putrescible)         Storage/collection – General solid waste (non-putrescible)       Storage/collection – General solid waste ontractor.         Resource recovery off site - the waste contractor would collect the skip bin and transport to a licenced waste management contractor.       Resource recovery off site - the waste contractor would collect the skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection – Asbestos waste is to be left in-situ and adequately secured for collect in by an appropriately licenced asbestos removal contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.  |           |             |                     | waste contractor would collect the                                |
| Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste         Asbestos       Special waste         Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | skip bin and transport to a licenced                              |
| Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste contractor.         Asbestos       Special waste         Asbestos       Special waste         Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licence.         The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | reuse recycling reprocessing or                                   |
| Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste         Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licenced waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | energy recovery in accordance with                                |
| Glass       General solid waste<br>(non-putrescible)       Storage/collection – General solid<br>wastes are to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.         Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste         Asbestos       Special waste         Storage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.         Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licenced waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | the Waste Classification Guidelines.                              |
| (non-putrescible) wastes are to be stored within designated skip bins on-site for collection by an appropriately licenced waste management contractor. <b>Resource recovery off site</b> - the waste contractor would collect the skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines. Asbestos Special waste <b>Storage/collection –</b> Asbestos waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor. <b>Disposal off-site –</b> the licensed contractor. <b>Disposal off-site –</b> the licensed contractor is to collect, transport and dispose the waste at an appropriately licenced waste facility in accordance with the premises' Environment Protection Licence. The asbestos waste is to be tracked and all dockets and receipts retained.  |           | Glass       | General solid waste | Storage/collection – General solid                                |
| designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor. <b>Resource recovery off site -</b> the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.         Asbestos       Special waste <b>Storage/collection -</b> Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor. <b>Disposal off-site -</b> the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             | (non-putrescible)   | wastes are to be stored within                                    |
| Asbestos       Special waste         Asbestos       Special waste         Storage/collection – Asbestos         waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor.         Disposal off-site – the licensed contractor.  |           |             |                     | designated skip bins on-site for                                  |
| Asbestos       Special waste       Storage/collection – Asbestos         Asbestos       Special waste       Storage/collection – Asbestos         waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor.       Disposal off-site – the licensed contractor.         Disposal off-site – the licensed contractor is to collect, transport and dispose the waste facility lin accordance with the premises' Environment Protection Licence. The asbestos waste is to be tracked and all dockets and receipts retained.   |           |             |                     | licenced waste management   |
| Asbestos       Special waste       Resource recovery off site - the waste contractor would collect the skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Asbestos       Special waste       Storage/collection – Asbestos waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor.         Disposal off-site – the licensed contractor is to collect, transport and dispose the waste at an appropriately licensed waste facility in accordance with the premises' Environment Protection Licence. The asbestos waste is to be tracked and all dockets and receipts retained.   |           |             |                     | contractor.   |
| waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.AsbestosSpecial wasteAsbestosStorage/collection – Asbestos<br>waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | Resource recovery off site - the                                  |
| Skip bin and transport to a licenced waste management facility for reuse, recycling, reprocessing or energy recovery in accordance with the Waste Classification Guidelines.         Asbestos       Special waste         Storage/collection – Asbestos waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor.         Disposal off-site – the licensed contractor is to collect, transport and dispose the waste at an appropriately licensed waste facility in accordance with the premises' Environment Protection Licence.         The asbestos waste is to be tracked and all dockets and receipts retained.  |           |             |                     | waste contractor would collect the                                |
| Asbestos       Special waste       Storage/collection – Asbestos         waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor.       Disposal off-site – the licensed contractor is to collect, transport and dispose the waste at an appropriately licenced waste facility in accordance with the premises' Environment Protection Licence.         The asbestos waste is to be tracked and all dockets and receipts retained.       Storage/collection – Asbestos   |           |             |                     | skip bin and transport to a licenced                              |
| Asbestos Special waste Storage/collection – Asbestos waste is to be left in-situ and adequately secured for collection by an appropriately licenced asbestos removal contractor. Disposal off-site – the licensed contractor is to collect, transport and dispose the waste at an appropriately licenced with the premises' Environment Protection Licence. The asbestos waste is to be tracked and all dockets and receipts retained.  |           |             |                     | reuse, recycling, reprocessing or                                 |
| Asbestos       Special waste       Storage/collection – Asbestos         Asbestos       Special waste       Storage/collection – Asbestos         waste is to be left in-situ and       adequately secured for collection by         an appropriately licenced asbestos       removal contractor.         Disposal off-site – the licensed       contractor is to collect, transport         and dispose the waste at an       appropriately licensed waste facility         in accordance with the premises'       Environment Protection Licence.         The asbestos waste is to be tracked       and all dockets and receipts         retained.       Tetained.  |           |             |                     | energy recovery in accordance with                                |
| Asbestos       Special waste       Storage/collection – Asbestos         waste is to be left in-situ and       adequately secured for collection by         an appropriately licenced asbestos       removal contractor.         Disposal off-site – the licensed       contractor is to collect, transport         and dispose the waste at an       appropriately licensed waste facility         in accordance with the premises'       Environment Protection Licence.         The asbestos waste is to be tracked       and all dockets and receipts         retained.       Tetained.   |           |             |                     | the Waste Classification Guidelines.                              |
| waste is to be left in-situ and<br>adequately secured for collection by<br>an appropriately licenced asbestos<br>removal contractor.<br><b>Disposal off-site –</b> the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           | Asbestos    | Special waste       | Storage/collection – Asbestos                                     |
| an appropriately licenced asbestos<br>removal contractor.<br><b>Disposal off-site –</b> the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | adequately secured for collection by                              |
| removal contractor.<br><b>Disposal off-site</b> – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | an appropriately licenced asbestos                                |
| Disposal off-site – the licensed<br>contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | removal contractor.   |
| contractor is to collect, transport<br>and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | Disposal off-site – the licensed                                  |
| and dispose the waste at an<br>appropriately licensed waste facility<br>in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | contractor is to collect, transport                               |
| in accordance with the premises'<br>Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | and dispose the waste at an appropriately licensed waste facility |
| Environment Protection Licence.<br>The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.   |           |             |                     | in accordance with the premises'                                  |
| The asbestos waste is to be tracked<br>and all dockets and receipts<br>retained.  |           |             |                     | Environment Protection Licence.                                   |
| and all dockets and receipts retained.  |           |             |                     | The asbestos waste is to be tracked                               |
|   |           |             |                     | and all dockets and receipts                                      |
|   |           |             |                     |   |



|                    |   | WASTE  | PROPOSED STORAGE  |
|--------------------|---|--|---|
| CONSTRUCTI         | WASTE   |  | AND RE USE  |
| <b>ON ACTIVITY</b> | TYPE  |  | /RECYCLING /DISPOSAL  |
|                    |   | ON   | METHODS   |
| Excavation         | Excess spoil<br>(unsuitable<br>material)      | VENM, ENM<br>and/or<br>General solid waste<br>(non-putrescible)  | Reuse on-site - If suitable, re-use<br>non-contaminated spoil in backfill.<br>Storage/collection – Excess spoil<br>is to be stored within designated<br>skip bins or segregated stockpiles)<br>on-site for chemical<br>assessment/waste classification,<br>and later collection by an<br>appropriately licenced waste<br>management contractor.<br>Reuse off site – where there is full<br>compliance with the VENM criteria<br>and/or ENM resource recovery<br>exemption, the waste contractor<br>would transport the VENM/ENM<br>material to an appropriately licenced<br>receiving facility permitted to accept<br>VENM/ENM as engineering fill via<br>an Environmental Protection<br>Licence (EPL), or Council DA.<br>Disposal off-site – In the event the<br>spoil does not satisfy the VENM and<br>ENM exemption, the material is to<br>be analysed and classified as<br>general solid waste (or higher<br>classification) and disposed by the<br>contractor at an appropriately<br>licensed waste facility in<br>accordance with the premises'<br>Environment Protection Licence |
| Building and       | <u>0</u> , 1                                  | <b>a</b>   |   |
| construction waste | Steel<br>reinforcing                          | General solid waste<br>(non-putrescible)   | Storage/collection – Steel waste is<br>to be stored within designated large<br>skip bins on-site for collection by an<br>appropriately licenced waste<br>management contractor.<br>Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.   |
| construction waste | Steel<br>reinforcing<br>Conduits and<br>pipes | General solid waste<br>(non-putrescible)<br>General solid waste<br>(non-putrescible)<br>General solid waste<br>(non-putrescible) | Storage/collection – Steel waste is<br>to be stored within designated large<br>skip bins on-site for collection by an<br>appropriately licenced waste<br>management contractor.<br>Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.<br>Storage/collection – General solid<br>waste is to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.<br>Resource recovery off site - the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.<br>Storage/collection – General solid<br>waste is to be stored within<br>designated skip bins on-site for   |

## AW EDWARDS

| CONSTRUCTI                      | WASTE   | WASTE<br>CLASSIFICATI   | PROPOSED STORAGE<br>AND RE USE  |
|---------------------------------|---|---|---|
| ON ACTIVITY                     | TYPE  | ON  | /RECYCLING /DISPOSAL<br>METHODS   |
|                                 |   |   | licenced waste management<br>contractor.<br><b>Resource recovery off site -</b> the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.   |
|                                 | Packaging<br>materials<br>(including<br>wood, plastic,<br>metal and<br>cardboard) | General solid waste<br>(non-putrescible)                        | Storage/collection – General solid<br>waste is to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.<br><b>Resource recovery off site -</b> the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.   |
| Sediment control<br>maintenance | Geotextile and sandbags   | General solid waste<br>(non-putrescible)                        | Storage/collection – General solid<br>waste is to be stored within<br>designated skip bins on-site for<br>collection by an appropriately<br>licenced waste management<br>contractor.<br><b>Resource recovery off site -</b> the<br>waste contractor would collect the<br>skip bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.   |
|                                 | Sediment<br>removed from<br>sediment<br>controls once<br>they reach<br>capacity.  | VENM, ENM<br>and/or<br>General solid waste<br>(non-putrescible) | Reuse on-site - If suitable, re-use<br>non-contaminated sediment in<br>backfill.<br>Storage/collection – Excess<br>accumulated sediment is to be<br>stored within designated skip bins<br>or segregated stockpiles) on-site for<br>chemical assessment/waste<br>classification, and later collection by<br>an appropriately licenced waste<br>management contractor.<br>Reuse off site – where there is full<br>compliance with the VENM criteria<br>and/or ENM resource recovery<br>exemption, the waste contractor<br>would transport the VENM/ENM<br>material to an appropriately licenced<br>receiving facility permitted to accept<br>VENM/ENM as engineering fill via<br>an Environmental Protection<br>Licence (EPL), or Council DA.<br>Disposal off-site – In the event the<br>spoil does not satisfy the VENM and<br>ENM exemption, the material is to |

## AW EDWARDS

#### **Construction Spoil Management Plan**

|                    |                 | WASTE               | PROPOSED STORAGE                          |
|--------------------|-----------------|---------------------|---|
| CONSTRUCTI         | WASTE           |                     | AND RE USE                                |
| <b>ON ACTIVITY</b> | TYPE            |                     | /RECYCLING /DISPOSAL                      |
|                    |                 | <b>CN</b>           | METHODS                                   |
|                    |                 |                     | be analysed and classified as             |
|                    |                 |                     | classification) and disposed by the       |
|                    |                 |                     | contractor at an appropriately            |
|                    |                 |                     | licensed waste facility in                |
|                    |                 |                     | accordance with the premises'             |
| Site compound and  | Drained oil     | General solid waste | Storage/collection – General solid        |
| office             | filters, rags   | (non-putrescible)   | waste is to be stored within              |
|                    | and oil-        |                     | designated skip bins on-site for          |
|                    | absorbent       |                     | collection by an appropriately            |
|                    | only contain    |                     | contractor                                |
|                    | non-volatile    |                     | Resource recovery off site - the          |
|                    | petroleum       |                     | waste contractor would collect the        |
|                    | hydrocarbons    |                     | skip bin and transport to a licenced      |
|                    | contain free    |                     | reuse, recycling, reprocessing or         |
|                    | liquids.        |                     | energy recovery in accordance with        |
|                    |                 |                     | the Waste Classification Guidelines.      |
|                    | Containers,     | General solid waste | Storage/collection – General solid        |
|                    | containing      | (non-putresciple)   | designated skip bins on-site for          |
|                    | dangerous       |                     | collection by an appropriately            |
|                    | goods, from     |                     | licenced waste management                 |
|                    | which residues  |                     | contractor.                               |
|                    | removed by      |                     | waste contractor would collect the        |
|                    | washing or      |                     | skip bin and transport to a licenced      |
|                    | vacuuming       |                     | waste management facility for             |
|                    |                 |                     | reuse, recycling, reprocessing or         |
|                    |                 |                     | the Waste Classification Guidelines.      |
|                    | Food waste      | General solid waste | Storage/collection - Food waste is        |
|                    |                 | (non-putrescible)   | to be stored within designated bins       |
|                    |                 |                     | on-site for collection by an              |
|                    |                 |                     | management contractor.                    |
|                    |                 |                     | Resource recovery off site - the          |
|                    |                 |                     | waste contractor would collect the        |
|                    |                 |                     | bin and transport to a licenced           |
|                    |                 |                     | reuse, recycling, reprocessing or         |
|                    |                 |                     | energy recovery in accordance with        |
|                    | Maatawatar      | Liquid wooto        | the Waste Classification Guidelines.      |
|                    | from amenities  | Liquid waste        | be extracted via sealed vacuum            |
|                    |                 |                     | tanker by an appropriately licenced       |
|                    |                 |                     | contractor.                               |
|                    |                 |                     | <b>Disposal</b> – the licenced contractor |
|                    |                 |                     | appropriately licenced facility           |
|                    |                 |                     | permitted to accept sewage/liquid         |
|                    |                 | <b>a</b>            | waste for appropriate disposal.           |
|                    | Paper,          | General solid waste | Storage/collection – General office       |
|                    | plastic. glass. |                     | designated bins on-site for               |
|                    | aluminium       |                     | collection by an appropriately            |
|                    | cans            |                     | -   |

Page 24 of 32

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED



| CONSTRUCTI<br>ON ACTIVITY | WASTE<br>TYPE                   | WASTE<br>CLASSIFICATI<br>ON | PROPOSED STORAGE<br>AND RE USE<br>/RECYCLING /DISPOSAL<br>METHODS  |
|---------------------------|---------------------------------|-----------------------------|--|
|                           |                                 |                             | licenced waste management<br>contractor.<br><b>Resource recovery off site -</b> the<br>waste contractor would collect the<br>bin and transport to a licenced<br>waste management facility for<br>reuse, recycling, reprocessing or<br>energy recovery in accordance with<br>the Waste Classification Guidelines.   |
|                           | Unwanted<br>liquid<br>chemicals | Liquid waste                | Storage/collection – Chemicals<br>are to be stored in original<br>containers in a designated bunded<br>and secure are for collection by an<br>appropriately licenced contractor.<br>Disposal – the licenced contractor<br>would transport the material to an<br>appropriately licenced facility<br>permitted to accept liquid waste for<br>appropriate disposal. |

## 5 **POTENTIAL IMPACTS**

Spoil and other waste material entering drainage systems or waterways via stormwater runoff or being deposited on neighbouring lands via wind erosion, can pose a threat to downstream aquatic ecology and water quality as well as the wider community.

Failure to appropriately classify, store, transport and dispose of waste can result in adverse environmental impacts as well as penalties.

AW EDWARDS

The key spoil related aspects and impacts are summarised in Table 5.1.

These identified risks have been considered in the development of this plan and site-specific procedures for the works.

| Table | 51.   | Aspec | ts and | impacts |
|-------|-------|-------|--------|---------|
| Iable | J. I. | Aspec | is and | inpacio |

| ASPECTS  | POTENTIAL IMPACTS   |
|--|---|
| Earthworks spoil disposal.   | <ul> <li>Incorrect classification of waste (spoil) resulting in<br/>incorrect / illegal disposal/re-use.</li> </ul>   |
| Potential for discovery of<br>unexpected contaminated<br>spoil during construction.                  | <ul> <li>Health effects resulting from airborne contamination, e.g. asbestos.</li> <li>Complaints received from odours released during excavations.</li> <li>Classification of spoil is changed and disposal options altered, costs incurred associated with disposal of higher classification of waste.</li> </ul> |
| Spoil re-use objectives  | <ul> <li>Project requirements of 100% of spoil re-use or recycling<br/>not being met.</li> </ul>  |
| Noise from spoil<br>transportation activities<br>resulting in impact to<br>residents and businesses. | <ul> <li>Disturbance to residents or neighbouring businesses.</li> <li>Potential for complaints.</li> </ul>   |
| Dust from spoil transportation activities resulting in impact to residents and businesses.           | <ul> <li>Disturbance to residents or neighbouring businesses.</li> <li>Potential for complaints.</li> </ul>   |
| Spoil traffic disturbing public access between local roads.  | <ul> <li>Disturbance to residents resulting in complaints being<br/>made, limited access, potential for delays at local road<br/>access points resulting in complaints.</li> </ul>  |

## 6 SPOIL MANAGEMENT

Table 6.1 outlines the REMMs to be implemented for the project to minimise the potential for impacts arising from spoil and waste management.

AW EDWARDS

| Table  | 61.  | Spoil | and | waste | management | RFMMs |
|--------|------|-------|-----|-------|------------|-------|
| I abic | 0.1. | Spon  | anu | Wasie | management |       |

| REFERENCE | MITIGATION MEASURE   | TIMING                 | RESPONSIBILITY |
|-----------|--|------------------------|----------------|
| WM1       | All waste would be assessed,<br>classified, managed and<br>disposed of in accordance with<br>the NSW Waste Classification<br>Guidelines      | During<br>construction | P&EM, PE., FM  |
| WM2       | 100% of the spoil that can be<br>reused would be beneficially<br>reused in accordance with the<br>project spoil recovery reuse<br>hierarchy. | During<br>construction | P&EM, PE., FM  |
| WM3       | A recycling target of at least<br>90% would be adopted for the<br>project  | During<br>construction | FM             |
| WM4       | Construction waste would be<br>minimised by accurately<br>calculating materials brought<br>to the site and limiting<br>materials packaging   | During<br>construction | CM, FM         |

#### 6.1 SPOIL AND WASTE STORAGE

Temporary stockpiles of spoil may be produced and stored on site in skip bins or other waste receptacles while the material is classified in accordance with the *Waste Classification Guidelines* for re-use and/or disposal at a licenced waste management facility. No long-term spoil stockpiles will be created.

#### 6.2 RE-USE AND DISPOSAL OPTIONS

Given spoil would be generated, it is necessary to identify spoil re-use and disposal locations. However, many concurrent major infrastructure projects are under construction in the wider Sydney region and there is a significant demand for waste disposal sites from multiple large construction contractors. Therefore, not all sites have been secured at the time of writing this plan and will change over time depending on time and space availabilities. Notwithstanding, a reuse target of at 90% of spoil produced has been adopted and would be reused in accordance with the hierarchy identified in Table 4.1.

Prior to engaging a contractor to collect, transport and dispose/re-use the waste, the Planning & Environmental Manager and Construction Manager would obtain a copy of all relevant qualifications, accreditations, permits and licences from the nominated contractor to ensure the contractor and receiving facility are legally permitted to accept the waste type, as required by the POEO Act. In the event that a waste is to be transported to a non-licensed facility for disposal, the Planning & Environment Manager would request for a notice under Section 143(3A) of the POEO Act to be completed and signed by the owner of the waste facility to demonstrate they are legally permitted to accept the waste type. The Section 143 notice would be provided to Sydney Metro for approval prior to transportation of the waste material.

For a resource recovery exemption to apply, all the conditions of the exemption must be met. These conditions include, but are not limited to, sampling and testing requirements, chemical thresholds, use restrictions and record keeping requirements.

AW EDWARD

The disposal of waste is to be treated as a last resort. Waste disposal will be in accordance with the POEO Act and the Waste Avoidance and Resource Recovery Act 2001.

Table 6.2 identifies likely waste streams to be generated by construction of the project, and waste classification requirements for materials to be disposed of off-site. Disposal is required at fully licenced facilities, with local facilities nominated below.

Table 6.2: Waste stream classification and disposal. WASTE DISPOSAL WASTE STREAM LOCATION(S) **CLASSIFICATIONS** Building and demolition General solid waste (non-To be confirmed waste (asphalt, concrete etc) putrescible) General recyclables (glass, General solid waste (non-To be confirmed cans, paper, cardboard) putrescible) To be confirmed VENM / ENM Spoil General solid waste (non-Spoil To be confirmed putrescible) Liquid waste or treated drilling Drilling mud To be confirmed mud Concrete slurry Liquid waste To be confirmed Special waste To be confirmed Asbestos containing material

It should be noted that the disposal locations nominated above are indicative and additional waste management facilities may be identified and used during construction pf the project. All waste management facilities would be validated by the Planning & Environmental Manager as being permitted to accept the respective waste stream prior to disposal.

Spoil will be reported in the monthly sustainability data report (MSDR) with the final spoil locations will be audited by A W Edwards on a six monthly basis for all spoil contractors with the results included in the six month compliance tracking report.

# 6.3 UNEXPECTED CONTAMINATED LAND AND ASBESTOS FINDS PROCEDURE

Given that the station box was predominantly constructed in natural bedrock, the potential for substantial volumes of contaminated spoil to be generated during construction is expected to be low. Notwithstanding, there is potential to encounter contaminated soil during construction.

Construction personnel would be briefed on the potential for unexpected contamination to occur within the site and procedures to be implemented in the event contamination is identified or suspected.

If contamination is identified or suspected, all work in the vicinity of the find shall cease and the area isolated appropriately. A specialist consultant experienced in the identification, sampling and testing of contamination would be engaged to undertake an assessment of site conditions prior to re-commencement of works. The consultant should:

 Sample and analysis of soil to determine the potential existence of contaminants. Analysis must be undertaken by a NATA accredited laboratory;

AW EDWARDS

- Sample, analyse and determine classification of material to be disposed and/or confirm for re-use as backfill or transportation to another development suitably licensed to accept the material; and
- Report and provide advice on management options, re-use onsite and disposal criteria.

Once waste has been classified, appropriate management options would be considered and implemented in accordance with legislated requirements.

Only bonded asbestos may be received at some premises. There may also be limits on the quantity of asbestos that can be stored on some premises at any time.

Prior to engaging a contractor to collect, transport and dispose/re-process any special or hazardous waste, the Planning & Environmental Manager would obtain a copy of all relevant qualifications, accreditations, permits and licences from the nominated contractor to ensure the contractor and receiving facility are legally permitted to accept the waste type, as required by the POEO Act.

The asbestos waste is to be tracked and all dockets and receipts retained.

#### 6.4 TRANSPORT AND HAULAGE

Spoil will be transported off site by registered trucks via approved construction traffic transport routes. Spoil leaving site will be document in terms of time and date, truck registration, classification, characterisation and location of disposal. The following will be recorded:

- Date.
- Docket number
- Haulage company/licence.
- Material classification.
- Quantity in tonnes.
- Truck identification number.
- Location of spoil receival site.

## AW EDWARDS

## 7 COMPLIANCE MANAGEMENT

#### 7.1 ROLES AND RESPONSIBILITIES

The overall roles and responsibilities for A W Edwards personnel are outlined in **Chapter 4** of the CEMP. The roles and responsibilities of construction personnel in terms of spoil management are described in Table 7.1.

#### Table 7.1: Roles and responsibilities

| ROLE                                   | RESPONSIBILITIES   |
|--|--|
| Project Director                       | Managing the delivery of the project including overseeing implementation of spoil management measures.   |
| Planning and Environment<br>Manager    | <ul> <li>Oversee the implementation of all spoil management<br/>initiatives.</li> <li>Responsible for managing ongoing compliance with the<br/>CoA and environmental document requirements.</li> <li>Track and report spoil elements against sustainability<br/>targets.</li> <li>Manage the on-ground application of spoil management<br/>measures during construction.</li> <li>Monitor and report on spoil management during<br/>construction.</li> </ul> |
| Construction/Site Managers,<br>Foreman | <ul> <li>Manage the delivery of the construction process, in relation to spoil management across all sites in conjunction with the Planning and Environment Manager.</li> <li>Ensure that relevant spoil management requirements are considered in procuring materials and services.</li> </ul>  |
| Project Engineer                       | Implement spoil management activities during construction works.   |

#### 7.2 TRAINING

All site personnel will be inducted and trained as required in relation to spoil and waste management. This CSMP will be continuously improved by ongoing evaluation of environmental management performance against environmental policies, objectives and targets to identify opportunities for improvement.

The training will cover the following issues such as:

- Legislative requirements (POEO Act, EPL etc.) including Section 120 (offence to pollute waters).
- Duty to notify of environmental harm (or the potential for it) including chain of reporting.
- Spill containment and management procedure.
- Contamination and unexpected finds.
- Toolbox talks will also be used to further reinforce awareness of spoil issues.

Further details regarding staff induction and training are described in **Chapter 6** of the CEMP.

#### 7.3 MONITORING AND INSPECTIONS

General requirements and responsibilities in relation to inspections and compliance monitoring are documented in **Chapter 9** of the CEMP. Routine environmental inspections will include determination of compliance with this CSMP.

Spoil will be monitored and reported in the monthly sustainability data report (MSDR), including:

 The volume of spoil reused within the Site, beneficially reused off-site amounts or disposed of off-site against the target in Section 4.1.

AW EDWARDS

 Destinations for spoil which has been beneficially reused off-site or disposed of off-site.

#### 7.4 NON-CONFORMANCES

Non-conformances will be identified, managed and documented in accordance with Section 9.4 of the CEMP.

#### 7.5 COMPLAINTS

Complaints will be recorded and addressed in accordance with Section 7.4.2 of the CEMP and the Community and Stakeholder Engagement Plan.

#### 7.6 AUDITS

Audits (both internal and external) will be undertaken to assess the effectiveness of management and mitigation measures, compliance with this CHMP, planning approval conditions and relevant guidelines. Audit requirements are detailed in Section 9.3 of the CEMP.

#### 7.7 RECORD MANAGEMENT

Compliance records would be maintained as detailed in Section 11.2 of the CEMP and may include the following aspects regarding heritage management:

- Inspections undertaken in relation to spoil management measures;
- Results of any spoil testing and waste classification;
- Records detailing the beneficial re-use of spoil either within the project or at offsite locations;
- Spoil volumes and disposal locations; and
- Waste register and disposal dockets.

The above records will be made available to Sydney Metro.

AW EDWARDS

**Construction Spoil Management Plan** 

## 8 **REVIEW AND IMPROVEMENT**

The CSMP will be reviewed annually to ensure compliance with legislative requirements and its suitability and effectiveness for the project.

The review may be in the form of:

- A formal management review;
- A second party audit; and/or
- Inclusion as a separate item at a site meeting.

The Planning & Environmental Manager may review and update the CSMP more regularly where:

- Significant changes in design or construction activities occur;
- Where targets are not being achieved; or
- In response to lessons learned, audits and non-conformity reports.

Any changes to the CSMP will be approved by Sydney Metro and endorsed by the ER in accordance with **Chapter 10** of the CEMP.