



Spoil Management Plan

SMWSTCTP-AFJ-1NL-PE-PLN-000002 Revision 3

Sydney Metro West – Central Tunnelling Package



DOCUMENT APPROVAL

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GLOSSARY / ABBREVIATIONS

Abbreviation	Description / Definition
AFJV	Acciona Ferrovia Joint Venture (the Contractor)
AS/NZS	Australia/New Zealand Standards
Amendment Report	Sydney Metro West Westmead to The Bays and Sydney CBD Amendment Report Concept and Stage 1 (2020)
CEMP	Construction Environmental Management Plan
CoR	Chain of Responsibility
Construction	Includes all work required to construct Stage 1 of the CSSI as described in the documents listed in Condition A1 of Schedule 3, including commissioning trials of equipment and temporary use of any part of the CSSI, but excluding Low Impact Work. <i>Note: As defined in Table 1 of SSI 10038 Infrastructure approval for the Project.</i>
Construction Site	Means the Project Site and the Temporary Areas.
CoA	Minister's Conditions of Approval (as relevant to Sydney Metro West Concept and Stage 1)
CTP	Central Tunnelling Package
DECC	Former Department of Environment and Climate Change (NSW) now NSW Office of Environment and Heritage.
DPIE	NSW Department of Planning, Infrastructure and Environment
DPI (Water)	NSW Department of Primary Industries (Water) (Former Office of Water)
EIS	Sydney Metro West Concept and Stage 1 Environmental Impact Statement (April 2020)
EMS	Environmental Management System
Environmental aspect	Defined by AS/NZS ISO 14001:2015 as an element of an organisation's activities, products or services that can interact with the environment
Environmental incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance with the conditions of this approval. <i>Note "material harm" is defined in this document.</i>
Environmental impact	Defined by AS/NZS ISO 14001:2015 as any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's environmental aspects
Environmental objective	Defined by AS/NZS ISO 14001:2015 as an overall environmental goal, consistent with the environmental policy, that an organisation sets itself to achieve
Environment Policy	Statement by an organisation of its intention and principles for environmental performance
EPA	NSW Environment Protection Authority
EP&A Act	<i>NSW Environmental Planning and Assessment Act 1979</i>
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act, 1999</i>

Abbreviation	Description / Definition
EPL	NSW Environment Protection Licence under the <i>Protection of the Environment Operations Act 1997</i> .
ER	Environmental Representative
ESCP	Erosion and Sediment Control Plan
ENM	Excavated Natural Material
EWMS	Environmental Work Method Statements
GSW	General Solid Waste
Hold point	Is a verification point that prevents work from commencing prior to release.
Material harm	This is harm that: (a) involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial or (b) results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000, (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment).
Minister, the	NSW Minister for Planning and Public Spaces
Non-compliance	An occurrence, set of circumstances or development that is a breach of this approval but is not an incident.
OCCS	Overarching Community Communication Strategy
Planning Secretary	The Planning Secretary of the Department of Planning, Industry and Environment
PoEO Act	<i>NSW Protection of the Environment Operations Act 1997</i>
PESCP	Progressive Erosion and Sediment Control Plan
Project	Sydney Metro West Concept and Stage 1
Project Site	The land described as the Project Site in section 2 of the Site Access Schedule
RSW	Restricted Solid Waste
Relevant Councils	Any or all local government councils as relevant, Inner West Council, Strathfield Municipal Council, Burwood Council, City of Canada Bay, City of Parramatta
REMM	Revised Environmental Management Measure
SWMP	Soil and Water Management Plan
Submissions Report	Sydney Metro West Westmead to The Bays and Sydney CBD Submissions Report Concept and Stage 1 (2020)
SOPA	Sydney Olympic Park Authority
Temporary Areas	The land described as the Temporary Areas in clause 3 of the Site Access Schedule.
VEMN	Virgin Excavated Natural Material
WMP	Waste Management Plan

1. INTRODUCTION

1.1 BACKGROUND

Sydney Metro is Australia's biggest public transport program. Services on the North West Metro Line between Rouse Hill and Chatswood started in May 2019. The Sydney Metro network also includes Sydney Metro City & Southwest, Sydney Metro West and Sydney Metro Western Sydney Airport.

Sydney Metro West is a new 24 kilometre metro line between Westmead and the Sydney CBD. This infrastructure investment will double the rail capacity of the Greater Parramatta to Sydney CBD corridor with a travel time target between the two centres of about 20 minutes.

The planning approvals and environmental impact assessment for Sydney Metro West has been split into a number of stages recognising the size of the project. This includes:

- Stage 1 – Concept and all major civil construction works including station excavation and tunnelling between Westmead and The Bays. Planning approval for this stage was granted in March 2021.
- Stage 2 – All major civil construction works including station excavation and tunnelling from The Bays to Sydney CBD
- Stage 3 – Tunnel fit-out, construction of stations, ancillary facilities and station precincts, and operation and maintenance of the Sydney Metro West line

An Environmental Impact Statement (EIS) (Jacobs/Arcadis, 2020) for the Concept and Stage 1 (herein referred to as the Project) assessed the Spoil, Waste and Resource Use impacts in response to the Secretary's Environmental Assessment Requirements issued by the Department of Planning, Industry and Environment (DPIE). The spoil, waste management and resource use impact assessment is included in Chapter 24 of the EIS. The Project was approved on 11 March 2021 (SSI 10038). An administrative modification (Modification 1) was approved on 28 July 2021.

1.2 SCOPE

The Spoil Management Sub-Plan (SMP) forms part of the Construction Environmental Management Plan (CEMP). This Plan outlines how AFJV will comply with and implement the applicable 'environmental requirements' for the Central Tunnelling Package (CTP) (the Project) and identify how Acciona Ferrovial Joint Venture (AFJV) will manage the spoil impacts during construction of the CTP civils construction phase B1 (in accordance with the Sydney Metro Phasing Report).

This Spoil MP outlines how AFJV will comply with and implement the applicable elements from the following documents, collectively referred to herein as the 'Project requirements':

- NSW Minister for Planning's Conditions of Approval
- Revised Environmental Mitigation Measures (REMMs) and the
- Sydney Metro Construction Environmental Management Plan (CEMF).

This plan is to be read in conjunction with the Waste Management Plan. This plan only addresses the handling and management of spoil. The Waste Management Plan addresses aspects of waste reuse, recovery and disposal of all other waste.

Spoil is defined as natural rock, soil or other material that is brought up through the process of excavation. Spoil that is contaminated will be managed in accordance with relevant Remediation Action Plan(s) (RAPs), and if required, disposed in accordance with the AFJV's CTP Waste Management Plan.

2. OBJECTIVES AND TARGETS

2.1 GENERAL OBJECTIVES AND TARGETS

In order to assess the environmental performance during construction, environmental objectives and targets have been established. These objectives and targets have been developed with consideration of key performance outcomes for each key issue as specified in the EIS. Refer to Section 3.3 of the CEMP for performance outcomes spoil management as identified in the Project EIS. The CEMP has specific objectives in relation to spoil management that will apply to construction:

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

Table 1 below provides a summary of the environmental objectives and targets from Chapter 27 of the EIS related to spoil management.

TABLE 1: OBJECTIVES AND TARGETS

Objective	Targets	Measurement tool
Spoil generated during the construction is effectively stored, handled, treated (if necessary), reused, and/or disposed of lawfully and in a manner that protects environmental values	100% reuse or recycling (on or off-site) of useable spoil Any contaminated spoil is managed to protect environmental values and human health.	Audits and site inspections Waste Tracking Register Implement Waste & Resource Management Plan Remediation Action Plan and Site Auditor Statements as appropriate. Validation Report
Ensure project personnel are aware and competent in their responsibilities in relation to the management of waste and spoil	100% of relevant project personnel aware of responsibilities under the CEMP and this SMP	CTP induction register and training register

2.2 RE-USE AND RECYCLING TARGETS

Spoil waste will comprise the largest waste category, aggregating approximately 1.9 million bank cubic metres of spoil generated from the excavations that is expected to be VENM or ENM from the station and shaft excavations. In addition, approximately 225,000 m³ of Potentially Contaminated Spoil is expected to be excavated from the station and shaft excavations or other waste categories include building and demolition waste.

To proactively and effectively manage waste throughout the construction of the CTP, AFJV has established an extensive set of internal waste recycling targets, set out in Table 2 .

TABLE 2: RE-USE AND RECYCLING TARGETS FOR SPOIL MATERIAL

Waste Stream	Waste Classification	Disposal Methods	Target Reuse/ Recovery
VENM (Virgin Excavated Natural Material) or ENM (Excavated Natural Material)	VENM or ENM (where disposed off-the Project site to a non-licensed facility in accordance with relevant Resource Recovery Orders).	Reuse on site where possible Offsite reuse (Resource recovery exemption) Offsite reuse (Section 143) Offsite disposal to a licenced facility	100%
Potentially contaminated soils	If material is excavated and removed off-site, classification will be carried out, prior to construction and in accordance with the EPA <i>Waste Classification Guidelines: Parts 1 (including Addendum) and 2 (EPA, 2014)</i>	On-site remediation and re-use where possible. Off-site disposal at an approved facility	0%*
Potential or Actual Acid Sulphate Soils (PASS/ASS)	Classification will be carried out prior to construction and in accordance with the EPA <i>Waste Classification Guidelines: Parts 1 (including Addendum) and 2 (EPA, 2014)</i>	On-site remediation and re-use where possible. Off-site re-use (Resource Recovery Exemption) Off-site disposal at an approved facility	100% of PASS that is permitted to be beneficially reused in accordance with the RAP, legislation and relevant guidelines.

*Where permissible by the RAP, some contaminated material with low levels of contamination of certain contaminants (such as PFAS) may be reused, however, due to the lack of fill areas, it is unlikely large amounts of contaminated material will be reused on the Project.

Note that additional existing Resource Recovery Exemptions may be used, or new Project specific exemptions may be granted where an application is made to the EPA. It is likely that the CTP team will seek additional exemptions during delivery. For example, a Resource Recover Exemption to reuse material that may include material with small quantum of shotcrete which may be cut out during the excavation process, as consistent with other large excavation projects.

3. ENVIRONMENTAL REQUIREMENTS

3.1 RELEVANT LEGISLATION AND GUIDELINES

3.1.1 LEGISLATION AND REGUALTIONS

Legislation and regulations relevant to waste and spoil management include:

TABLE 3: RELEVANT LEGISLATION

Legislation	Management
<i>Environmental Planning and Assessment Act 1979</i>	Modifications to the SSI 10038 Infrastructure approval would be assessed under the EP&A Act.
<i>Protection of the Environment Operations Act 1997</i>	An Environment Protection Licence (EPL) will be sought for scheduled activities. An approved notice under Section 143 will be completed for waste disposal sites as required.
<i>Protection of the Environment Operations (General) Regulation 2009</i>	An Environment Protection Licence (EPL) will be sought for scheduled activities.
<i>Protection of the Environment Operations (Waste) Regulation 2014</i>	Spoil and waste to be managed, including reporting, record keeping and tracking, in accordance with this Spoil Management Plan and the Waste Management Plan. A resource recovery order and resource recovery exemption are to be sought for CTP.
<i>Waste Avoidance and Resource Recovery Act 2001 (WARR Act)</i>	Waste avoidance and resource recovery measures to be applied as per this Spoil Management Plan and the Waste Management Plan.

3.1.2 GUIDELINES AND STANDARDS

The main guidelines, specifications and policy documents relevant to this SMP include:

- Waste Avoidance and Resource Recovery Strategy 2007 (DECC, 2007)
- Waste Classification Guidelines 2014 (EPA Publication)
- Best Practice Waste Reduction Guidelines for the Construction and Demolition Industry (tools for Practice), Natural Heritage Trust, 2000
- National Environmental Protection (Assessment of Site Contamination) Measure (1999).

3.1.3 NSW WASTE STRATEGY

Waste management for the CTP will be managed in accordance with the CEMF and the waste hierarchy documented within the *NSW Waste Avoidance and Resource Recovery Strategy*. The hierarchy is as follows:

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

The AFJV waste approach is focussed on the top two levels of the hierarchy as detailed below.

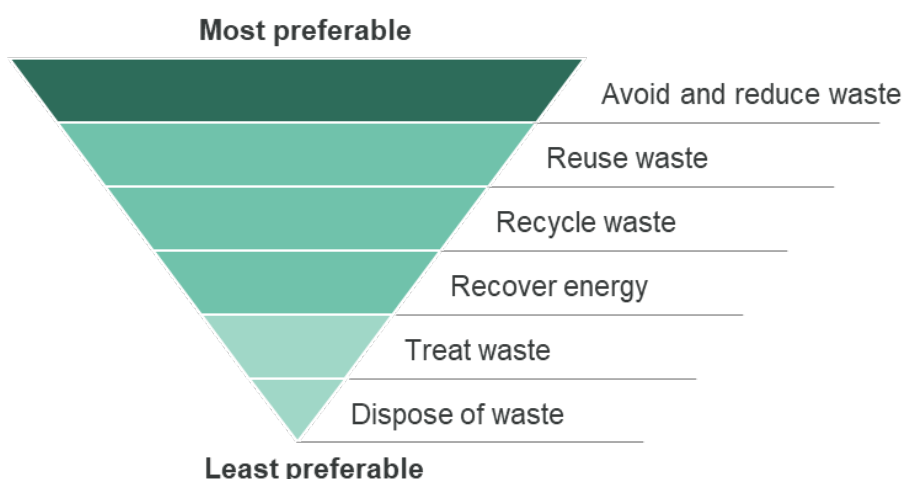


FIGURE 1: WASTE MINIMISATION HIERARCHY

3.1.4 AVOID AND REDUCE SPOIL

As indicated by its position at the top of the hierarchy, to 'Avoid and Reduce' the generation of waste is the preferred approach. AFJV will regularly assess options for waste avoidance throughout the design and construction of CTP, including the consideration of the following:

- Review of CTP design packages in relation to spoil management to:
 - Minimise over excavation of surface soils that are likely to be contaminated
 - Minimise over excavation of station box spoil
 - Assess the suitability of resources required for construction of CTP in regard to the generation of waste or the source of the materials
 - Maintain controls with regards to minimising 'overbreak' (i.e. removal excess material in the excavation process)
 - Re-using spoil as an engineered property for onsite road building/backfill.
- Prioritise the incorporation of the following strategies in construction processes:
 - Employ trained and qualified plant and machinery operators to avoid overbreak and the over-excavation of station boxes
 - Ensure the extent of any contaminated material is identified in Detailed Site Investigations (DSI) and Remediation Action Plans (RAP) to assist in minimising the over excavation of contaminated spoil, and the minimising of mixing of waste streams through waste segregation practices.
 - Ensure all material is considered for its re-use potential. This includes materials such as treated PASS/ASS and spoil containing trace levels of contamination.

3.1.5 REUSE SPOIL

AFJV will continue to examine opportunities to reuse spoil during the CTP. In response to this principle, AFJV has initiated significant spoil reuse initiatives which demonstrate our commitment to the Sydney Metro Spoil Management Hierarchy. This is discussed further in Section 5.2.1.

Other opportunities will be explored as CTP progresses, including the opportunity to reuse waste under resource recovery exemptions for material that may have low concentrations of contamination or other cross contaminants such as shotcrete or concrete fibres. The use of Resource Recovery Exemptions is described in further detail in the Waste Management Plan.

3.2 CONDITIONS OF APPROVAL

Conditions of Approval (CoA) relevant to the preparation of this SMP are presented in Table 4 below. Additional CoAs that are applicable to spoil management are presented in Appendix A.

Section 6.2 of the CEMF lists a number of requirements relating to the development of the SMP. Section 6.2 states that the Principal Contractors will develop and implement a Spoil Management Plan for their scope of works. Other requirements from the CEMF relevant to spoil management are included in Appendix A.

TABLE 4. COMPLIANCE TABLE – PROJECT REQUIREMENTS FOR PREPARATION OF CEMP

Project Planning Approval (dated 11 March (SSI 10038))		Where addressed
A6	<p>Where the conditions of this approval require a document or monitoring program to be prepared, or a review to be undertaken, in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Planning Secretary with the document. The evidence must include:</p> <p>(a) documentation of the engagement with the party identified in the condition of approval that has occurred before submitting the document for approval;</p> <p>(b) a log of the dates of engagement or attempted engagement with the identified party and a summary of the issues raised by them;</p> <p>(c) documentation of the follow-up with the identified party(s) where feedback has not been provided to confirm that the party(s) has none or has failed to provide feedback after repeated requests;</p> <p>(d) outline of the issues raised by the identified party(s) and how they have been addressed; and</p> <p>(e) a description of the outstanding issues raised by the identified party(s) and the reasons why they have not been addressed.</p>	<p>Section 3.5</p> <p>Appendix C</p>
C1	Construction Environmental Management Plans (CEMPs) and CEMP Sub-plans must be prepared in accordance with the Construction Environmental Management Framework (CEMF) included in the documents listed in Condition A1 of this schedule to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 of this schedule will be implemented and achieved during construction.	This table
C5(e)	<p>Of the CEMP Sub-plans required under Condition C1 of this schedule, the following CEMP Sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan. Details of issues raised by a government agency during consultation must be included in the relevant CEMP Sub-plan, including copies of all correspondence from those government agencies as required by Condition A6 of this schedule. Where a government agency (ies) request(s) is not included, the Proponent must provide the Planning Secretary / ER (whichever is applicable) justification as to why:</p> <p>...</p> <p>Required Sub-plan: (e) Spoil</p>	<p>Section 3.5</p> <p>Appendix C</p>

	Relevant government agencies to be consulted for each CEMP Sub-plan: Relevant Council(s) and SOPA (in respect of Sydney Olympic Park)	
Construction Environmental Management Framework		Where addressed
6.2 a. i.	The spoil mitigation measures as detailed in the environmental approval documentation;	Appendix A
6.2 a. ii.	The responsibilities of key project personnel with respect to the implementation of the plan;	Section 8.1 CEMP
6.2 a. iii.	Procedures and methodologies for the haulage and disposal locations, storage and stockpiling arrangements, including those for virgin excavated natural material, contaminated and unsuitable material;	Section 5 Traffic Management Plan (TMP) Construction Parking and Access Strategy (CPAS)
6.2 a. iv.	Procedures for the testing, excavation, classification, handling and reuse of spoil;	Section 4.1
6.2 a. v.	Measures that will be implemented to both reduce spoil quantities and maximise the beneficial reuse of spoil which will be generated during the performance of the Contractor's Activities, including how spoil generation is minimised through the design development process;	Section 4.1
6.2 a. vi.	Details, links or references to where traffic movements in relation to spoil are described, and measures that will be implemented to minimise traffic and noise impacts associated with haulage and disposal of spoil;	CPAS TMP Noise and Vibration Management Plan (NVMP) Detailed Noise and Vibration Impact Statement (DNVIS)
6.2 a. vii.	Quantities for reuse of spoil within the Construction Site, for beneficial reuse of spoil off site and for spoil disposal;	Section 4.2
6.2 a. viii.	Processes and procedures for the management of the environmental and social impacts of spoil transfer and reuse;	Section 5.2
6.2 a. ix.	A register of spoil receipt sites that includes the site or project name, location, capacity, site owner and which tier the site is classified as under the spoil reuse hierarchy;	Section 5.2 Appendix B Appendix D
6.2 a. x.	Spoil management monitoring requirements; and	Section 8.3
6.2 a. xi.	Compliance record generation and management.	Section 8.4

3.3 REVISED ENVIRONMENTAL MITIGATION MEASURES

Refer to **Appendix A** for all relevant Revised Environmental Mitigation Measures (REMMs).

3.4 LICENCES AND PERMITS

The following licences and permits are required to be obtained by AFJV during the Project:

- An Environment Protection License (EPL) will apply for the Project. The EPL will be in place prior to the commencement of bulk earthworks.
- Waste transporters who are removing trackable waste (as defined in Schedule 1, part 2, of the Protection of the Environment Operations Act, 1997) are required to be licensed.
- Resource Recovery Order(s) and Resource Recovery Exemption(s) will be sought for spoil leaving the Project site to maximise the re-use of spoil material.

3.5 CONSULTATION

Prior to submission to the ER for endorsement and/or DPIE for approval, external consultation during the preparation of the SMP was undertaken with stakeholders, as described in CoA C5, including:

- Sydney Olympic Park Authority (SOPA) (in respect of Sydney Olympic Park)
- Inner West Council
- City of Canada Bay
- Strathfield City Council
- Burwood Council, and
- City of Paramatta Council

Details of issues raised by stakeholders during consultation is provided in **Appendix C** including copies of correspondence in accordance with Condition A6.

Refer to CEMP for more information regarding ongoing consultation during delivery of the CTP.

3.6 DOCUMENT APPROVAL

This Plan will be approved by the Planning Secretary and endorsed by the ER, along with the submission of the CEMP, no later than one month before the commencement of construction. Construction will not commence until the CEMP, sub-plans and construction monitoring program are approved/and or endorsed by the ER in accordance with CoAs C10 and C21. The CEMP and CEMP sub-plans and associated construction monitoring program will be implemented for the duration of construction of the CTP.

4. EXISTING ENVIRONMENT

Known spoil and waste constraints associated with the Project have been identified and documented in the following environmental assessment reports, which included detailed desk top studies and field investigations:

- EIS Sydney Metro West Stage 1 Chapter 24 Spoil, Waste and Resource Use
- Golder/Douglas Partners, October 2018, Groundwater Level Monitoring Report, 1791865-003-R-GWMR3-RevA
- Golder/Douglas Partners, October 2020. Groundwater Monitoring Report - Stage 2 Locations, 1791865-023-RGWMR Rev A
- Senversa, May 2021, Factual Contamination Investigation Report- The Bays, 000013/11868 White Bay Site Investigations.

The following chapters summarise the spoil, waste and resource aspects and the likely CTP impacts as identified in the EIS.

4.1 SPOIL CLASSIFICATION

Prior to the commencement of soil excavation at surface work CTP Project sites, AFJV will complete Detailed Site Investigations (DSI), which will include in-situ waste classifications for all materials to be excavated.

Waste classification of all spoil material will be carried out in accordance with the AFJV Waste Management Plan (SMWSTCTP-AFJ-1NL-WM-PLN-000001). Waste classification will be carried out by specialist contamination consultants, in accordance with the NSW EPA Waste Classification Guidelines (2014).

Completing In-situ waste classifications will be beneficial in reducing the need to temporarily stockpile contaminated materials on the Project sites, prior to off-site disposal. Additionally, the in-situ classification will allow strategic planning of excavation to minimise the risk of occupational health exposure, and environmental harm. Further, the in-situ classification will be used to ensure waste streams are appropriately segregated to avoid cross contamination to the greatest extent possible prior to re-use or offsite disposal.

Further waste classification will be undertaken during the excavation of spoil to provide validation and appropriate detail for waste management such as waste segregation requirements and the verification of the volume and in-situ waste classifications prior to off-site disposal. This will be described in the relevant Remediation Action Plan (RAP) for the area (where required).

All waste classifications will be documented and linked to the tracked waste as part of the waste tracking register (see Waste Management Plan for a description of the waste tracking process and the waste tracking register template). All of this waste documentation will be made available to the EPA Accredited Site Auditor and included in validation reports prior to the Site Auditor Statement being approved by the Site Auditor.

Surface excavations are anticipated to generate the following streams:

- Virgin Excavated Natural Material (VENM) and Excavated Natural Material (ENM)
- Contaminated Soils (including special waste, restricted solid waste (RSW) and hazardous waste)
- General solid waste (GSW)
- Potential and Actual Acid Sulfate Soils (PASS/ASS).

When it comes to spoil, AFJV will apply the Spoil Management Hierarchy:

1. Re-use spoil within the project
2. Re-use spoil for environmental works, such as coastal protection or in flood mitigation projects
3. Re-use spoil on other development projects
4. Re-use for land restoration projects
5. Landfill management, such as spoil to cap or cover landfill waste.

In accordance with the Sydney Metro Spoil Hierarchy, where on-site re-use opportunities are limited, suitable off-site re-use facilities will be identified.

4.2 SPOIL VOLUMES

Table 5 below summarises the anticipated spoil volumes for major waste streams by each Project Site during civils construction. These spoil volumes may adjust throughout the CTP as more information is gathered through detailed investigations.

TABLE 5. ANTICIPATED SPOIL GENERATED BY LOCATION

CTP Project Site	VENM / ENM* (T)	Potentially Contaminated Spoil** (T) (incl. GSW)
Sydney Olympic Park	390,662	60,332
North Strathfield	210,023	43,749
Burwood North	549,061	53,961
Five Dock	287,881	19,966
The Bays	495,364	57,804
Total	1,932,991	223,706

* VENM / ENM for reuse within the CTP footprint, or beneficial reuse elsewhere.

** Potentially Contaminated Spoil includes General Solid Waste, Restricted Solid Waste and Hazardous Solid Waste to be disposed of at licensed facilities after other available and cost-effective management options are exhausted.

***This estimate also include an estimated 18,836t of Potential Acid Sulfate Soil (PASS). Management of PASS is addressed in the SWMP.

5. SPOIL STORAGE, TRANSPORT AND DISPOSAL

5.1 STOCKPILING

5.1.1 CONTAMINATED SOILS

Contaminated soils are anticipated at some CTP Project Sites, such as The Bays, North Strathfield and Sydney Olympic Park. These soils will be classified once the results of the in-situ Detailed Site Investigations have been completed.

Site investigation findings will minimise the risk of unexpected discovery of contaminated soils during excavation works and facilitate the development of excavation zones to enable segregation, which minimises mixing different classifications of spoil. The findings will also inform the preparation of a remediation plan and the process of contaminated spoil management, including:

- Soil excavation within pre-determined contaminated areas
- Hazard and risk mitigation measures to be implemented including specific controls on toxic finds, such as the management of hazards with asbestos impacted soils or odorous spoil. Where asbestos is identified, a Class A Licenced asbestos removalist contractor, occupational hygienist and air monitoring program will be engaged to manage works in accordance with the Asbestos Management Plan
- Measures for spoil segregation, temporary stockpiling and containment
- Haulage and disposal off-site
- Potential for remediation treatment and/or off-site reuse at the licenced disposal facilities
- Testing and approval requirements
- Monitoring, auditing and reporting requirements.

During excavations, materials that are contaminated will be loaded directly onto licensed transport vehicles for off-site disposal. Stockpiling of contaminated soils will be avoided where possible via the in-situ waste classification identification of potentially contaminated materials, and strategic planning to rapidly remove all such materials identified.

If stockpiling of contaminated soils is necessary, the stockpiles will be labelled with signage and will be covered daily unless otherwise deemed to not be required by a contaminated land specialist or where it states it is not required in the RAP. Any stockpiling of material will be done in accordance with the Soil and Water Management Plan (SWMP) and the site-specific Progressive Erosion and Sediment Control Plan (PESCP), which will be developed in accordance with the Blue Book. A stockpile register will be maintained throughout construction to ensure wastes are segregated and managed in accordance with the RAP(s), the Waste Classification Guidelines and the Blue Book. The Stockpile Register template is included in the SMWP appendices.

5.1.2 SPOIL AND OTHER NON-CONTAMINATED SOILS

CTP will generate non-contaminated soils in the form of VENM, ENM and project-specific Resource Recovery material.

These materials may be stockpiled in accordance with the Soil and Water Management Plan prior to re-use within the Project Works or at suitable off-site facilities.

The site will be designed in a manner to maximise storage of spoil to the greatest extent practicable to allow contingency for weekends, public holidays, special events and wet weather days, enabling excavation activities to continue even when spoil haulage is not possible.

To avoid double handling, stockpiled material will be minimised and we will manage the stockpiles in a safe and organised condition applying the following practices:

- Batter slopes will be used to prevent collapse or sliding of the stockpiled material
- Stockpiles will be no greater than 6 metres in height without a certified design

- Dust, odour, erosion and sediment controls will be in place and maintained at all times, including use of spoil sheds or screens in areas close to buildings or in densely populated areas, excavation of drains (such as using diversion landscaping and shaping of soils into bunds), erection of silt barriers (such as using woven cloth held in place with star pickets), and dust suppression covers through use of appropriate water spraying equipment
- Additional control measures will be applied specific to the contamination profile of the stockpiled material, with all contaminated spoil and potential acid sulfate soil removed off-site (or treated with lime) within 24 hours.
- Any stockpiling of material will be done in accordance with the SWMP and the site-specific Progressive Erosion and Sediment Control Plan (PESCP), which will be developed in accordance with the Blue Book.

AFJV will manage the CTP Project Sites to prevent mixing of material types, such as confirmed clean and suspected contaminated soils, during all stages of the materials handling process including excavation, stockpiling and loading. Likely sources of contaminated spoil are anticipated within the upper fill layers at each station.

Materials that may be required to be separately stockpiled include pavement material (such as concrete and bitumen), VENM sandstone, VENM shale/siltstone, backfill material, soils suspected to be contaminated soil (as defined in *Environmental Protection Act 1994* and *National Environmental Protection (Assessment of Site Contamination) Measure 1999* (ASC NEPM 1999) (NEPC 1999a) and potential acid sulfate soils.

5.2 SPOIL TRANSPORT AND DISPOSAL

AFJV will manage truck loading in accordance with the AFJV Chain of Responsibility Plan (CoR), to ensure each load is at or below the maximum legal limit. Depending on the Project Site location, each site entry and exits points will be manned by gate-person and who will ensure that no pedestrians or cyclists are put at risk. The Traffic Manager will advise the spoil team when road closures or other special traffic arrangements are in place.

Truck drivers will be responsible for ensuring the truck load is covered, which will be verified by the gate-person (or via CCTV camera) prior to leaving the Project Site, to minimise any spill or escape of any dust, waste, or spoil. Mud, splatter, dust and other material likely to fall from or be cast off the wheels, underside or body of a vehicle is removed before the vehicle leaves the premises.

Road surfaces subject to the tracking of material by vehicles leaving the premises will be effectively cleaned as required via a road sweeper where mud-tracking has been identified or excessive dust is being generated.

Spoil haulage times from each of the CTP Project sites will be managed in accordance with the relevant EPL and CoA, along with any site-specific restrictions from Construction Traffic Management Plans and Detailed Noise and Vibration Statements.

Waste spoil will only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the *Protection of the Environment Operations (Waste) Regulation 2014*, or to any other place that can lawfully accept such waste. **Appendix B** details a list of spoil receiving facilities likely to be utilised and the types of material accepted.

A Waste Disposal Site Register will be maintained throughout construction as described in the Waste Management Plan, which will also include all spoil taken offsite. The register will record the waste disposal site or project name, location, capacity, site owner and which tier the site is classified as under the spoil reuse hierarchy. A template of the Waste Disposal Site Register is included in Appendix D.

AFJV will ensure spoil transport vehicles are equipped with GPS tracking technology and connected to the Virtual Superintendent or equivalent to support the management and tracking of spoil. The

requirement to comply with GPS tracking requirements and the AFJV's CoR Management Plan will be included in subcontracts with waste transport contractors.

5.2.1 CHAIN OF RESPONSIBILITY

Full details of National Heavy Vehicle Law (NHVL) Chain of Responsibility (CoR) conformance are contained in the CoR Management Plan. The heavy vehicle CoR recognises that a number of different participants in each road transport 'chain' can influence and direct driver's on-road behaviours, and the state of the heavy vehicle being driven. The many parties in the road transport 'chain' are given responsibility for either:

- Complying with their specific obligations under the laws; or
- Taking all reasonable steps to ensure that other parties in the road transport 'chain' achieve compliance and are not encouraged or incentivised to break the law.

The Chain of Responsibility Management Plan applies to all of AFJV's operations and all persons working under the supervision or control of AFJV personnel. CoR compliance requires duty-holders to address the four main areas as outlined in Table 6.

TABLE 6. CHAIN OF RESPONSIBILITY COMPLIANCE

The Load	Ensuring the load is not in excess of the heavy vehicle's capacity and that it is properly restrained (i.e. mass, dimension and loading)
The Vehicle	Ensuring that the heavy vehicle is properly maintained and roadworthy
The Driver	Ensuring that the driver is not fatigued when driving the heavy vehicle
The Public	Ensuring that the heavy vehicle is not induced or encouraged to speed while on the road, endangering the driver and other members of the public.

The parties in the road transport 'chain' include Employers, Loaders, Loading Managers, Consignees, Schedulers and others. Importantly, AFJV may perform more than one role in a particular heavy vehicle 'chain'.

As part of compliance with the core legislative requirements, there is a statutory obligation to obtain and comply with appropriate licences, permits, approvals and notifications. At all times AFJV will hold (and ensure its Service Providers and workers hold) all required licenses, permits, approvals, certificates and registrations.

Under the CoR Management Plan and using the resources referred to in the plan, AFJV will manage any specific obligations it owes and take reasonable steps to ensure broader CoR compliance in a particular transport 'chain'. AFJV is committed to acting consistently with community expectations and the standards of civil construction industry participants of its type.

5.2.2 WASTE DISPOSAL PERMIT

Prior to disposal of spoil off-site, AFJV will prepare and approve a Waste Disposal Permit, managed by the Environmental Manager. The permit system will be utilised to assess the waste classification, the transport requirements (i.e., licensing) and the planning approval of the receiving facility.

The permit system will include checks to ensure an approved notice under Section 143 has been completed by the landowner for waste disposal sites as required.

Unlicensed facilities receiving waste spoil under a current resource recovery exemption must demonstrate the legality of the use of the material prior to receiving the material.

5.2.3 SPOIL TRACKING

Waste management and waste tracking will be managed in accordance with the Waste Management Plan.

In accordance with CoA D83, the locations of all construction spoil haulage vehicles will be monitored in real time via AFJV GPS tracking and in accordance with CoA A47 these haulage vehicles will be clearly marked as being for the Sydney Metro West (including the display of the Critical State Significant Infrastructure (CSSI) SSI 10038) in such a manner to enable immediate identification within at least 50 metres of the vehicles such as through Project branding on haul trucks. GPS records will be made available to the EPA and the DPIE upon request for a year after completion of construction.

AFJV will track waste and spoil movements from cradle to grave using the Waste Tracking Register, including but not limited to movement of spoil within the boundaries of the Project Sites.

The register will consolidate GPS tracking, landfill receipt receipts, section 143 notices and resource recovery order/exemption details. Specifically, the following details will be recorded:

- Date transported
- Waste contractors
- Waste classification
- Source and Quantity
- Waste receipt location
- Transporter and truck registration
- Transport EPA licence
- Landfill docket numbers
- Waste hierarchy.

AFJV acknowledges the requirement for transporters and receivers of certain types of material to be registered with the EPA's WasteLocate system. WasteLocate tracks each load from pick up to disposal using GPS, and generates a unique consignment number just like a parcel in the post. Waste required to be tracked by WasteLocate include:

- Tyre consignors, transporters and facilities transporting or receiving waste tyres in NSW weighing more than 200 kilograms or consisting of 20 or more tyres in one load.
- Asbestos transporters and facilities receiving asbestos waste in NSW, weighing more than 100 kilograms or consisting of more than 10 square metres of asbestos sheeting in one load.
- People transporting asbestos contaminated soil in NSW, weighing more than 100 kilograms.

Obligation to be registered with WasteLocate will be a mandatory requirement for applicable waste transporter or disposal facilities by the AFJV.

6. ENVIRONMENTAL ASPECTS AND IMPACTS

The excavation and handling of spoil provides opportunities for environmental risks associated with contamination, waste and soil and water impacts. Aspects and the potential for impacts related to these issues have been considered in a risk assessment in Appendix C of the CEMP and include:

- Unlawful disposal of spoil
- Erosion and sedimentation
- Contamination and cross-contamination
- Noise and vibration from haulage
- Failure to identify reuse opportunities
- Failure to identify spoil reduction opportunities

For those activities with residual environmental risks identified as 'high', the justification for accepting the residual risk was discussed with all attendees. For all activities in this category, an Environmental Work Method Statement (EWMS) will be developed for that activity where other risk assessment strategies are not already in place.

Activities with the potential to generate spoil related impacts are listed in Table 7. Section 7 of this plan provides mitigation and management measures that will be implemented to avoid or minimise fauna and flora impacts during the delivery of the CTP.

TABLE 7: CONSTRUCTION ASPECTS RELATING TO SPOIL MANAGEMENT

Site establishment of CTP construction Project sites and enabling works	<p>This involves demolition of existing buildings, vegetation clearing, erection of hoarding and relocation, adjustment and protection of utilities and compound establishment.</p> <p>Waste generated from this activity would include demolition waste, green waste and spoil from compound establishment works.</p>
Piling	<p>Piling is required at all Construction CTP Project Sites for foundations of future structures and as linings of station and shaft excavations. Bored piling will be used rather than impact piling. A minor volume of spoil material would be generated from this activity.</p>
Surface construction	<p>Civil works and surface structures include roads, hardstand areas, water treatment facilities and site offices. A minor amount of spoil would be generated during this activity.</p>
Excavation	<p>Stations boxes, cross passages, nozzles and shafts will be excavated from the surface, commencing once piling is complete.</p> <p>Spoil will be removed from Project Sites by trucks sized appropriately in consideration of traffic route, receival site, material type and site access restrictions. .</p>
Spoil and materials transport	<p>Spoil will be transported from Project Sites by licenced contractors, to licensed facilities or other sites lawfully able to accept spoil.</p>

7. ENVIRONMENTAL CONTROLS

7.1 MITIGATION AND MANAGEMENT MEASURES

Construction associated with the CTP will generate spoil which is required to be appropriately managed. In order to avoid, mitigate and/or minimise these potential impacts, a range of environmental requirements and control measures are identified in the various CSSI environmental assessment documents (including the EIS) and other guidance documents. Specific measures and requirements to address spoil management are outlined in Table 8.

TABLE 8. SPOIL MANAGEMENT MITIGATION MEASURES

Reference	Measure/Requirement	Timing	Responsibility	Source
SMM1	All staff and Subcontractors will participate in a Project induction and ongoing toolbox talks that will describe waste minimisation and reuse management measures, including the requirements of the waste management hierarchy	Pre-construction/ construction	Project Director	CEMF
SMM2	Specific training packages will be developed to address key personnel responsibilities associated with the management of spoil and waste. For example, the selection and approval of off-site re-use facilities, and truck driver training.	Pre-construction/ construction	Environmental Manager	Best Practice
SMM3	Waste and spoil management measures from this plan will be included in relevant Environmental Work Method Statements (EWMS) that will be developed prior to the commencement of specific activities, where there is a residual high risk.	Pre-construction/ construction	Environmental Manager	CEMF
SMM4	Detailed design packages will be reviewed to minimise waste generation, for example, the reduction of bulk excavation footprints to reduce solid waste, including the reduction in generation of contaminated materials	Detailed design	Design Manager	CoA D111 CEMF 6.1.a.1 ISCA
SMM5	Forecast spoil generation quantities will be included in detailed design deliverables. Spoil generation quantities will assist the Project Engineers to	Detailed design	Design Manager	ISCA

	plan spoil segregation, spoil removal, re-use and disposal.			
SMM6	Site-specific Sampling Analysis Quality Plans (SAQPs) will be developed for each surface excavation Project site to inform In-situ waste classification in accordance with the NSW EPA Waste Classification Guidelines.	Pre-Construction	Contamination Consultant/ Environmental Manager	CoA D114
SMM7	In-situ waste classifications will be completed for soils to be excavated for surface works and dive structures. As required, volumetric models will be created to inform excavation planning. As part of the Detailed Site Investigations for each Project site, will further validate the in-situ waste classification. Where required, additional waste classification will be carried out during excavation to assist in in-situ classification verifications and also waste segregation and re-use or disposal requirements.	Pre-construction	Contamination Consultant/ Environmental Manager	CoA D114
SMM8	Detailed excavation planning will be completed for applicable Project Sites following in-situ waste classification. This planning will allow targeted removal of contamination based on location and exposure risk, e.g., removal of hotspots to reduce risk of cross contamination.	Construction	Environmental Manager/Site Supervisor	CoA D111 REMM WR4 CEMF 6.1.a.vi.
SMM9	Material encountered during excavation that is inconsistent with the In-situ waste classification will be segregated and stored with adequate environmental controls until the waste classification is completed. The 'Unexpected Contamination Protocol' contained within the Soil and Water Management Plan will be implemented.	Construction	Site Supervisor	REMM WR4

SMM10	All other wastes generated outside the In-situ waste classifications will be classified in accordance with the NSW EPA Waste Classification Guidelines.	Construction	Site Supervisor	CoA D114
SMM11	Spoil generated on-site, that requires storage prior to disposal, will be segregated by type and the appropriate environmental controls implemented, as required by the Soil and Water Management Plan. Stockpiles will be managed to avoid any contamination of land and adjacent waterways.	Construction	Site Supervisor	REMM WR4 CEMF 6.1.a.iv.
SMM12	All weather receiving facilities will be prioritised as spoil disposal locations to minimise wet weather delays when removing spoil off-site. This will also reduce the need to stockpile spoil on-site.	Construction	Spoil Manager	Best Practice
SMM13	100% of usable spoil will be re-used or recycled (both on-site and off-site). Where necessary the off-site re-use of spoil will be in accordance with either existing, or Project specific resource recovery exemptions/orders.	Construction	Spoil Manager	CoA D111 CEMF 6.1.a.ii.
SMM14	The re-use and recycling of materials generated on CTP, where suitable, will be prioritised over disposal at landfill facilities.	Construction	Site Supervisor	CoA D111
SMM15	Waste and spoil will be transported by reputable transport companies, and where required will be suitably licenced for transporting certain types of waste material.	Construction	Spoil Engineer/ Environmental Manager	NSW Legislation
SMM16	Waste transport vehicles will be fitted with GPS tracking systems. The locations of all construction spoil haulage vehicles will be monitored in real time via AFJV GPS tracking. GPS records will be	Construction	Spoil Engineer/ Environmental Manager	CoA D83 CoA D90(e)

	made available to the EPA and the DPIE upon request.			
SMM17	100% of CTP waste will be tracked using a waste tracking registers. The registers will track the material 'from cradle to grave'.	Construction	Spoil Engineer/ Environmental Manager	REMM WR5 CEMF 6.2.b
SMM18	A waste disposal permit system will be implemented for the authorisation of spoil and or waste to be disposed of off-site at licensed facilities or to any other place that can lawfully accept such waste.	Construction	Environmental Manager	CoA D113
SMM19	Spoil transport will be completed via approved haul routes only. The use of approved haul routes will be included in haulage contractor subcontracts. Compliance with these requirements will be monitored through the GPS tracking system.	Construction	Spoil Engineer	CoA D90(e)
SMM20	All Heavy Vehicles used for spoil haulage must be clearly marked on the sides and rear with the project name and application number to enable immediate identification by a person viewing the Heavy Vehicle standing 20 metres away.	Construction	Spoil Manager / Spoil Engineer	CoA A47
SMM21	Compliance with the requirements of this SMP will be included in weekly environmental inspections.	Construction	Environmental Advisor	CEMF 6.2.b

8. COMPLIANCE MANAGEMENT

8.1 PEOPLE, RESPONSIBILITIES AND COMMUNICATION

AFJV's organisational structure and overall roles and responsibilities are outlined in Section 3.5 of the CEMP.

In addition to the roles and responsibilities outlined in the CEMP, an additional role that is central to the management of spoil include the Spoil Manager or other nominated person (for example, Project Manager). The responsibility of that role includes the following:

- Accountable for ensuring that environmental considerations are integral to the decision making for all spoil related activities
- Ensuring the compliance with this management sub-plan
- Regularly monitoring and ensuring that the Spoil Management Sub-plan is implemented on all CTP Project sites and disposal and re-use locations
- Ensuring information concerning spoil management is communicated to the relevant personnel (including subcontractors and truck drivers)
- Ensuring that all spoil is tracked in accordance with the requirements of this sub-plan and the CoA's
- Stop work immediately if an unacceptable impact on the environment is likely to occur.
- Liaise with the environment team to ensure that environmental controls and procedures contained in the Spoil Management Sub-plan and Waste Management Sub-plan are integrated into management of spoil on the Project.
- Ensuring compliance with Soil Haulage routes and using only permitted Local Roads
- Compliance with CoR and Project safety requirements
- Communicating performance issues with haulage contractors, including covering roads, driver behaviour.

Responsibilities for implementing the specific mitigation measures are detailed in Section 7.

8.2 TRAINING

Refer to CEMP for full details on the delivery of spoil management training including:

- Environmental induction – for CTP specific spoil management
- Toolbox talks and awareness – for Project Site specific spoil management.

Topics relevant to spoil include:

- Relevant details of this SMP
- Haulage routes and GPS tracking requirements
- Waste permit procedures when they are developed
- Conditions of environmental licences, permits and approvals that specifically relate to spoil management and waste re-use and disposal
- Waste tracking
- Specific training will be undertaken for delegated officer authorised to sign off any Waste Transport Certificates when waste is picked up from site
- Incident response and reporting procedures
- Communication protocols for interactions with the community and stakeholders.

Training for all staff who work in the Spoil Management team will occur at the commencement of each staff member starting in that team. Refresher training will be carried out on a regular basis (i.e. toolbox training occurs on a weekly basis) or in response to a spoil related incident or similar.

All heavy vehicle drivers will be required to undertake the mandatory Project specific Heavy Vehicle Driver Introduction Training. Heavy Vehicle Driver Training will include (but not limited to)

- Chain of Responsibility Requirements
- Requirement for real-time GPS tracking of heavy vehicles and tracking of waste in general
- Haulage routes and the need to comply with the designated haulage routes
- Truck identification requirements (i.e. Project identifications stickers on all heavy vehicles)

A Code of Conduct for all staff and sub-contractors will be developed by AFJV, which will include a specific sub-section for Heavy Vehicle Drivers and Traffic Controllers (including gate-persons). The Heavy Vehicle Driver Code of Conduct sub-section will include a detailed list of responsibilities of drivers must adhere to. All drivers will need to sign onto this Code of Conduct prior to commencing hauling for the Project and will be held accountable.

8.3 MONITORING, INSPECTIONS AND AUDITS

Refer to the CEMP for more information on monitoring, inspections and audits.

Internal monitoring of spoil management will be utilised to confirm compliance with the objectives and targets established for this SMP.

Audits (both internal and external) will be undertaken to assess the effectiveness of environmental mitigation and management measures, compliance with this CEMP and other relevant approvals, licenses and guidelines.

The Waste Management Plan outlines all monitoring, inspection and audit responsibilities that relate to spoil management. Waste tracking and compliance audits and waste destination audits will be undertaken in accordance with the Waste Management Plan a minimum of every six-month. These waste tracking and destination are also an ISCA requirement, which will be discussed further in the Sustainability Management Plan. .

8.4 REPORTING AND RECORDS

AFJV will retain records of the waste tracking register, including the results of spoil and waste classification report, waste monitoring and auditing. Waste details will regularly be reported to Sydney Metro in an agreed Sustainability Reporting Template.

Records to be kept include records detailing the beneficial re-use of spoil either within the project or at off-site locations, Waste Disposal Permits, Resource Recovery Order records, and waste dockets for any spoil disposed of to landfill sites.

The Waste Tracking Register Template is included in the Waste Management Plan appendices.

9. REVIEW AND IMPROVEMENT

9.1 CONTINUOUS IMPROVEMENT

The Spoil Management Plan forms part of the CEMP. Refer to the CEMP for the process on continuous improvement and sub plan update and amendment.

APPENDIX A OTHER CONDITIONS OF APPROVAL, REMMS AND CEMF REQUIREMENTS RELEVANT TO THIS PLAN

Minister's Conditions of Approval (11 March 2021) (SSI 10038)		
Ref	Requirement	Where addressed
A47	All Heavy Vehicles used for spoil haulage must be clearly marked on the sides and rear with the project name and application number to enable immediate identification by a person viewing the Heavy Vehicle standing 20 metres away.	Section 5.2.3 SMM20
D37(d)(iv)	Notwithstanding Conditions D35 and D36 of this schedule work may be undertaken outside the hours specified in the following circumstances: (d) By Prescribed Activity, including: (iv) haulage of spoil except between the hours of 10:00pm and 7:00am to / from the Five Dock and Westmead construction sites and to / from Burwood North construction site using any roads / streets other than directly from Parramatta Road.	TMP NVMP
D83	The locations of all Heavy Vehicles used for spoil haulage must be monitored in real time and the records of monitoring be made available electronically to the Planning Secretary and the EPA upon request for a period of no less than one (1) year following the completion of construction.	Section 5.2.3 SMM16
D84	The primary egress routes for spoil haulage trucks at Sydney Olympic Park metro station construction site must be determined in consultation with SOPA.	CPAS TMP
D90(e)	Vehicles associated with the project workforce (including light vehicles and Heavy Vehicles) must be managed to: (e) ensure spoil haulage vehicles adhere to the nominated haulage routes identified in the CTMPs.	SMM16 SMM19 TMP
D111	Waste generated during construction and operation must be dealt with in accordance with the following priorities: (a) waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced; (b) where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and (c) where re-using, recycling or recovering waste is not possible, waste must be treated or disposed of.	Section 4.1 Section 5.2 SMM4 SMM5 SMM10 SMM13 SMM14
D112	The importation of waste and the storage, treatment, processing, reprocessing or disposal of such waste must comply with the conditions of the current EPL for Stage 1 of the CSSI, or be done in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> , as the case may be.	Waste Management Plan
D113	Waste must only be exported to a site licensed by the EPA for the storage, treatment, processing, reprocessing or disposal of the subject waste, or in accordance with a Resource Recovery Exemption or Order issued under the <i>Protection of the Environment</i>	Section 5.2 SMM18

Minister's Conditions of Approval (11 March 2021) (SSI 10038)		
	<i>Operations (Waste) Regulation 2014</i> , or to any other place that can lawfully accept such waste.	
D114	All waste must be classified in accordance with the EPA's <i>Waste Classification Guidelines</i> , with appropriate records and disposal dockets retained for audit purposes.	Section 4.1 SMM6 SMM7 SMM9 SMM10 SMM19

Revised Environmental Mitigation Measures (REMMs)		
Ref	Requirement	Where addressed
WR1	All waste would be assessed, classified, managed, transported and disposed of in accordance with the Waste Classification Guidelines and the <i>Protection of the Environment Operations (Waste) Regulation 2014</i> .	Section 4.1 SMM6 SMM7 SMM9 SMM10 SMM19
WR2	A hazardous material survey would be completed for those buildings and structures suspected of containing hazardous or special waste materials (particularly asbestos) prior to their demolition. If hazardous waste or special waste (e.g. asbestos) is encountered, it would be handled and managed in accordance with relevant legislation, codes of practice and Australian standards.	Waste Management Plan
WR3	Construction waste would be minimised by accurately calculating materials brought to the site and limiting materials packaging.	Section 4.1 SMM4 SMM5 Waste Management Plan
WR4	Waste streams would be segregated to avoid cross-contamination of materials and maximise reuse and recycling opportunities.	Section 5.1 SMM7 SMM8 SMM9
WR5	A materials tracking system would be implemented- for material transferred between Sydney Metro West sites and to offsite locations such as licensed waste management facilities.	Section 5.2 SMM16 SMM17 SMM18

Construction Environmental Management Framework (CEMF)		
Ref	Requirement	Where addressed

Construction Environmental Management Framework (CEMF)		
6.1.a.i.	Minimise spoil generation where possible	Section 4.1 SMM4 SMM5
6.1.a.ii.	The project will mandate 100% reuse or recycling (on or off-site) of usable spoil	Section 2.2 SMM13
6.1.a.iii.	Spoil will be managed with consideration to minimising adverse traffic and transport related issues	SMM19 TMP CPAS
6.1.a.iv.	Spoil will be managed to avoid contamination of land or water	Section 5.1 SMM11
6.1.a.v.	Spoil will be managed with consideration of the impacts on residents and other sensitive receivers	Section 5.1 SMM11 SMM19 TMP NVMP
6.1.a.vi.	Site contamination will be effectively managed to limit the potential risk to human health and the environment.	Section 5.1 SMM6 SMM7 SMM8 SMM9
6.2.b	<p>Spoil management measures will be included in regular inspections undertaken by the Contractor, and compliance records will be retained. These will include:</p> <ul style="list-style-type: none"> i. Records detailing the beneficial re-use of spoil either within the project or at off-site locations; and ii. Waste dockets for any spoil disposed of to landfill sites 	Section 8 SMM17 SMM18 SMM21

APPENDIX B WASTE DISPOSAL SITES

The below table provides a list of potential waste disposal sites, all sites may not be used for disposal. Additional sites may be added throughout the project as needs arise or additional opportunities are presented. A live register of active spoil disposal sites will be kept alongside the waste tracking register throughout construction which will include the site or project name, location, capacity, site owner and which tier the site is classified as under the spoil reuse hierarchy.

Waste disposal/spoil reuse site details	Street address	Waste types/quantities accepted. Spoil reuse hierarchy will be determined from this column prior to confirming the disposal site is suitable.	EPL number/ Planning Approval reference (where relevant)
Australian Native Landscapes Pty Ltd	60 Crawford Road, Cooranbong NSW 2265	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) Material which complies with a Resource Recovery order/exemption 	EPL11324
Boral Recycling Pty Ltd, St Peters	25 Burrows Road South, St Peters NSW 2044	<ul style="list-style-type: none"> Building and Demolition Waste (concrete, brick etc.) Asphalt waste Virgin Excavated Natural Material (VENM) 	EPL No. 12418
Boral Recycling Pty Ltd, Wetherill Park	39 Widemere Road, Wetherill Park NSW 2164	<ul style="list-style-type: none"> Building and Demolition Waste (concrete, brick etc.) Asphalt waste Waste Concrete Slurry Concrete bricks and roof tiles Cured Concrete waste from a batch plant Virgin Excavated Natural Material (VENM) Excavated Natural Material (ENM) 	EPL No. 11815
Brandown, Kemps Creek	Lot 90 Elizabeth Drive, Kemps Creek NSW 2178	<ul style="list-style-type: none"> Recycling waste, concrete bricks asphalt mixed building and construction waste, soil that meets the CT1 threshold for General Solid Waste Landfill, material that is un-recyclable and contaminated soils classified as General Solid Waste, as by test results 	EPL No. 5186
Breen Holdings, Kurnell	330 Captain Cook Drive, Kurnell NSW 2231	<ul style="list-style-type: none"> General Solid Waste Virgin Excavated Natural Material (VENM) 	EPL No. 4608
Bringelly Business Hub	50 Bringelly Road, Horningsea Park NSW	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) Excavated Natural Material (ENM) 	SSD6324 and CO11994.01 (under CC SY170236C01)

Waste disposal/spoil reuse site details	Street address	Waste types/quantities accepted. Spoil reuse hierarchy will be determined from this column prior to confirming the disposal site is suitable.	EPL number/ Planning Approval reference (where relevant)
		<ul style="list-style-type: none"> Material which complies with a Resource Recovery order/exemption 	
Cleanaway t/a Enviroguard Pty Ltd, Erskine Park Landfill	85–87 Quarry Road, Erskine Park NSW 2759	<ul style="list-style-type: none"> General Solid Waste (non-putrescible), including immobilised waste which is assessed as General Solid Waste (non-putrescible) and are subject to general or specific immobilisation approvals Asbestos waste 	EPL No. 4865
Cleanaway, Kooragang Island Hazardous Waste Treatment Facility	Raven Street, Kooragang Island NSW 2304	<ul style="list-style-type: none"> Hazardous Solid Waste 	EPL No. 6124
Cleanaway, Homebush		<ul style="list-style-type: none"> Waste types listed in Condition L3.1 of EPL 4560, including lead contaminated liquid waste. 	EPL 4560
Concrete Recyclers, Camellia	14 Thackeray Street, Camellia NSW 2142	<ul style="list-style-type: none"> Building and demolition waste (concrete, brick, asphalt) 	EPL No. 6664 No night tipping.
CPB Northern Road	Stage 5 and Stage 6, Northern Road, Bringelly NSW	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) Material which complies with a Resource Recovery order/exemption 	EPL 21189 and EPL 21248
Dial a Dump Industries Pty Ltd, Eastern Creek (Genesis Recycling Facility)	Honeycomb Drive, Eastern Creek NSW 2766	<ul style="list-style-type: none"> Wood waste Garden waste Waste tyres Building and demolition waste GSW (CT1) Soils 	EPL No. 20121
Dial a Dump Industries Pty Ltd, Eastern Creek (Genesis Waste Facility (Landfill))	Honeycomb Drive, Eastern Creek NSW 2766	<ul style="list-style-type: none"> Asbestos contaminated wastes (including asbestos soils) Waste tyres General Solid Waste (non-putrescible) Acid sulphate soil and potentially acid sulphate soil that has been treated and meets the definition of General Solid Waste (non putrescible) 	EPL No. 13426
Elford Group, Badgerys Creek	320–400 Badgerys	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) 	EPL No. 20498

Waste disposal/spoil reuse site details	Street address	Waste types/quantities accepted. Spoil reuse hierarchy will be determined from this column prior to confirming the disposal site is suitable.	EPL number/ Planning Approval reference (where relevant)
	Creek Road, Badgerys Creek NSW 2555	<ul style="list-style-type: none"> Excavated Natural Material (ENM) 	Development Application No. DA-693/2009/C
Environmental Treatment Solutions, Blayney and associated disposal sites	79 Marshalls Lane, Blayney NSW 2799	<p>Waste types listed in Condition L2.1 of EPL No. 13230, including (but not limited to):</p> <ul style="list-style-type: none"> Hydrocarbons waste Tyres Asbestos PCB waste Various chemical wastes Filter cake Lead Waste 	EPL No. 13230
Enviropacific Barangaroo	30–38 Hickson Road, Millers Point NSW 2000	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) Material which complies with a Resource Recovery order/exemption 	EPL 13336
Enviropacific Prestons		<ul style="list-style-type: none"> GSW-CT1 and CT2, RSW, Special Waste, Bricks, Concrete, Asphalt, Timber, Green waste, VENM 	Take any type of waste, and they have an agreement with multiple waste transfer stations
Fairfield City Council's Sustainable Resource Centre, Wetherill Park	Hassall Street, Wetherill Park NSW 2164	<ul style="list-style-type: none"> Building and demolition waste, including terracotta roof tiles, clay bricks, and clean concrete (with or without steel) Asphalt waste (ripped and profiled) Virgin Excavated Natural Material (VENM) 	EPL No. 5713
Gow Street Recycling Centre	81-87 Gow Street, Padstow NSW 2211	Building and demolition waste and asphalt waste, classified as General Solid Waste recyclable	EPL No. 10943
Hi-Quality Waste Management Pty Ltd, St Marys	37 Lee Holm Road, St Marys NSW 2760	<ul style="list-style-type: none"> General Solid Waste Recyclable, including recyclable soils and building and demolition waste (concrete, brick, asphalt) Virgin Excavated Natural Material (VENM) 	EPL No. 5857
MET Recycling, Silverwater	Cnr Newton Street North and Carnarvon Street, Silverwater NSW 2128	General Solid Waste Recyclable	EPL No. 20948

Waste disposal/spoil reuse site details	Street address	Waste types/quantities accepted. Spoil reuse hierarchy will be determined from this column prior to confirming the disposal site is suitable.	EPL number/ Planning Approval reference (where relevant)
Metropolitan Demolition and Recycling, St Peters	396 Princes Highway, St Peters NSW 2044	<ul style="list-style-type: none"> ■ Building and demolition waste ■ Asphalt waste 	EPL No. 11483
Northwest Recycling Centre		Green waste	Can only take green waste
Penrith Lakes Scheme	89–151 Old Castlereagh Road, Cranebrook NSW 2749	<ul style="list-style-type: none"> ■ Virgin Excavated Natural Material (VENM) ■ Excavated Natural Material (ENM) 	Development Approval (DA) 3, Modification 4, approved by DP&E on 30/04/15
Port Kembla Outer Harbour Reclamation	Port Kembla Outer Harbour	<ul style="list-style-type: none"> ■ Virgin Excavated Natural Material (VENM) 	Major Project Application No: 08_0249
Qube Moorebank	Moorebank Precinct East, Moorebank Avenue, Moorebank NSW 2170	<ul style="list-style-type: none"> ■ Virgin Excavated Natural Material (VENM) ■ Excavated Natural Material (ENM) ■ Material which complies with the November 2018 Resource Recovery order/exemption ■ Material which complies with the June 2019 Resource Recovery Order/Exemption 	MPE Stage 2 SSD 7628
Rock & Dirt, South Windsor	306 Racecourse Road, Clarendon NSW 2756	General Solid Waste Recyclable	EPL No. 4849
Sims Metal Management	Alexandria	Steel and scrap metal	Can only take steel.
Spring Farm Development Site (Tripodi Transport)	1102 Glenee Road, Spring Farm NSW 2570	<ul style="list-style-type: none"> ■ Virgin Excavated Natural Material (VENM) ■ Excavated Natural Material (ENM) ■ Sandstone Only 	Development Application No. E3/94 (continuing DA)
Suez Eastern Creek	Eastern Creek Waste and Recycling Centre, Wallgrove Road Eastern Creek NSW 2766	Virgin Excavated Natural Material (VENM)	EPL 12517
Suez, Kemps Creek	1725 Elizabeth Drive, Kemps	<ul style="list-style-type: none"> ■ Solid classified general dry wastes ■ Restricted classified wastes 	EPL No. 4068

Waste disposal/spoil reuse site details	Street address	Waste types/quantities accepted. Spoil reuse hierarchy will be determined from this column prior to confirming the disposal site is suitable.	EPL number/ Planning Approval reference (where relevant)
	Creek NSW 2178	<ul style="list-style-type: none"> Asbestos Asbestos contaminated wastes 	
Suez, Lucas Heights	New Illawarra Road, Lucas Heights NSW 2234	<ul style="list-style-type: none"> Excavated Natural Material (ENM) Virgin Excavated Natural Material (VENM) Clay only Solid classified general dry waste Asbestos Asbestos contaminated waste 	EPL No. 5065
Sydenham Station	Sydenham Metro Gate 1, Railway Parade, Marrickville NSW 2204	<ul style="list-style-type: none"> Virgin Excavated Natural Material (VENM) Material which complies with a Resource Recovery order/exemption 	EPL 21147
Sydney Recycling Park, Kemps Creek	16–23 Clifton Avenue, Kemps Creek NSW 2178	General Solid Waste	EPL No. 12901
Tox Free St Marys	40 Christie Street, St Marys NSW 2760	<ul style="list-style-type: none"> Absorbent pads/booms (used spill kits) Hydraulic hoses Fuel filters Fuel drums (emptied) Grease/oil/fuel stored in drums (used material) 	EPL 12628
Tox Free, Narangba (QLD)	8–12 Krypton Street, Narangba QLD 4504	<ul style="list-style-type: none"> Treatment and disposal of Polychlorinated Biphenyl (PCB) impacted soil 	Qld DEHP Environmental Authority Permit number EPPR00461413
Tox Free, South Windsor	Cnr Blackman Crescent and Fairy Road, South Windsor NSW 2756	Hazardous Waste	EPL No. 4602
Tox Free, St Marys	42–46 Charles Street, St Marys NSW 2760	Hazardous Waste	EPL No. 20271
Veolia, Horsley Park	Walgrove Road, Horsley Park NSW 2175	<ul style="list-style-type: none"> General Solid Waste Asbestos Contaminated General Solid Waste b Virgin Excavated Natural Material (VENM) Excavated Natural Material (ENM) 	EPL No. 20339

Waste disposal/spoil reuse site details	Street address	Waste types/quantities accepted. Spoil reuse hierarchy will be determined from this column prior to confirming the disposal site is suitable.	EPL number/ Planning Approval reference (where relevant)
Western Sydney Airport (WSA)	Western Sydney Airport, Badgerys Creek NSW	Virgin Excavated Natural Material (VENM)	Western Sydney Airport Plan and Construction Plan

APPENDIX C CONSULTATION RECORDS

Condition of Approval A6 Evidence – Spoil Management Plan

In accordance with C5(e) the Spoil Management Plan was prepared in consultation with the following government agencies and stakeholders:

- Sydney Olympic Park Authority
- Inner West Council
- City of Canada Bay Council
- Burwood Council
- Strathfield Municipal Council
- City of Parramatta Council

The attached supporting evidence has been included to demonstrate compliance with Condition of Approval (CoA) A6 in the development of the Spoil Management Plan.

The Spoil Management Plan was provided to the required agencies and stakeholders for consultation as follows:

CoA C5(e) Spoil Management Plan Consultation		
Government Agency/Stakeholder	Date consulted	Date of Response
Sydney Olympic Park Authority	18/08/2021	08/09/2021
Inner West Council	18/08/2021	10/09/2021
City of Canada Bay Council	18/08/2021	30/08/2021
Burwood Council	18/08/2021	13/08/2021
Strathfield Municipal Council	18/08/2021	10/09/2021
City of Parramatta Council	18/08/2021	No comments

Gregor Wilson

From: Dylan Porter <Dylan.Porter@burwood.nsw.gov.au>
Sent: Monday, 13 September 2021 3:21 PM
To: Erran Woodward
Cc: Lorryn Williamson; ankur.arora@transport.nsw.gov.au
Subject: Re: Comments on Environmental Documents.
Attachments: image001.png

Hi Erran

We will be providing comment for the Heritage Management plan abs noise and vibrant job plans. No comments on the others.

Regards ,

Dylan Porter
Director City Strategy
T: 02 9911 9850
E: Dylan.Porter@burwood.nsw.gov.au
2 Conder Street, Burwood, NSW, 2134



On 13 Sep 2021, at 2:58 pm, Erran Woodward <Erran.Woodward@ctp-afjv.com.au> wrote:

Hi Dylan,

Following my email last week, can you please confirm if Burwood Council will be providing comment on the following documents, provided for the Sydney Metro West Central Tunnelling Package:

- Noise and Vibration Management Plan and Monitoring Program
- Flora and Fauna Management Plan
- Soil and Water Management Plan including Surface Water Monitoring Program
- Heritage Management Plan
- Spoil Management Plan.

Your response would be appreciated as soon as possible if one is to be provided, as the consultation and review phase has now been completed.

Thanks,
ew

<image001.png>

Erran Woodward
Environmental Approvals Manager
Acciona Ferrovia Joint Venture

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On 13 Sep 2021, at 2:58 pm, Erran Woodward <Erran.Woodward@ctp-afjv.com.au> wrote:

Hi Dylan,

Following my email last week, can you please confirm if Burwood Council will be providing comment on the following documents, provided for the Sydney Metro West Central Tunnelling Package:

- Noise and Vibration Management Plan and Monitoring Program
- Flora and Fauna Management Plan
- Soil and Water Management Plan including Surface Water Monitoring Program
- Heritage Management Plan
- Spoil Management Plan.

Your response would be appreciated as soon as possible if one is to be provided, as the consultation and review phase has now been completed.

Thanks,
ew

<image001.png>

Erran Woodward
Environmental Approvals Manager
Acciona Ferrovia Joint Venture

*Sydney Metro West
Central Tunnelling Package
+61 437 343 178*

From: [Paul Dewar](#)
To: [Lorryn Williamson](#)
Subject: Environmental Management Plans - SMW - CTP
Date: Monday, 30 August 2021 6:50:56 PM
Attachments: [imagef0a4b2.PNG](#)
[image7b4215.PNG](#)
[imageca5472.PNG](#)
[imagee1c1a8.PNG](#)
[image5d77f7.PNG](#)
[Copy of AFJV Comments Review sheet - FFMP.xlsx](#)
[AFJV Comments Review sheet - Soil & Water.xlsx](#)
[AFJV Comments Review sheet - Spoil.xlsx](#)
[AFJV Comments Review sheet - Surface Water Monitoring Program.xlsx](#)
[Metro - AFJV Comments Review sheet - Heritage.xlsx](#)

Hi Lorryn

Thank you for providing Council with the opportunity to provide feedback on the Environmental Management Plans for the tunnel and stations excavation associated with Sydney Metro West.

Should I receive any further feedback, I will send it through.

Regards

Paul

Paul Dewar | Manager, Strategic Planning
City of Canada Bay

1a Marlborough St Drummoyne NSW 2047 | www.canadabay.nsw.gov.au
T: 02 9911 6402 | Paul.Dewar@canadabay.nsw.gov.au



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Erran Woodward

From: David Crosby <david.crosby@innerwest.nsw.gov.au>
Sent: Friday, 10 September 2021 2:40 PM
To: Erran Woodward
Cc: Ken Welsh; Lorryn Williamson; Ankur Arora
Subject: RE: Pending comments from Inner West Council

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Erran

Please see below our comments:

Flora and Fauna Management Plan:

- Section 6.2 states that pre-clearance inspections should be undertaken prior to clearing of native vegetation. As native wildlife also use non-native vegetation for nesting and roosting and other purposes pre-clearance inspections should be undertaken prior to non-native and native vegetation clearance.
- The wharf/jetty infrastructure in White Bay is possible roosting habitat for *Myotis Macropus* (fishing bats) so this infrastructure needs to be inspected/surveyed by qualified ecologist prior to any demolition/disturbance.
- To reduce impacts on various native wildlife best practice lighting guidelines should be followed for any temporary or permanent lighting – see Appendix A of the National Light Pollution Guidelines for Wildlife - <https://www.environment.gov.au/biodiversity/publications/national-light-pollution-guidelines-wildlife>

Spoil Management Plan:

- Is there a way to ensure that the council streets will be cleaned? Which council street will be impacted the most (i.e. what streets around the tunnel dive site at The Bays?)

Soil and Water Management Plan:

- You mention there will be ongoing reporting. Will there be any remediation reports made available at the end of the works?
- Also, page 1 of the Acid Sulphate Soil section is missing the project title and there is a formatting error in various tables and sections.

Noise and Vibration Monitoring Plan:

- At The Bays, would there be any cumulative noise and vibration effects from the Eastern tunnel package that need to be considered?
- Have other major projects' CEMPs been considered in these Central Tunnelling CEMPs?

I'm yet to hear back on the Heritage Management Plan, but I'll let you know next week on that one.

Regards

David Crosby
Road Access Project Engineer
p +61 2 9392 5650 e david.crosby@innerwest.nsw.gov.au



Council acknowledges the Traditional Custodians of these lands, the Gadigal-Wangal people of the Eora Nation.



From: Erran Woodward <Erran.Woodward@ctp-afjv.com.au>

Sent: Friday, 10 September 2021 1:58 PM

To: David Crosby <david.crosby@innerwest.nsw.gov.au>

Cc: Ken Welsh <Ken.Welsh@innerwest.nsw.gov.au>; Lorryn Williamson <Lorryn.Williamson@ctp-afjv.com.au>; Ankur Arora <Ankur.Arora@transport.nsw.gov.au>

Subject: Pending comments from Inner West Council

Some people who received this message don't often get email from erran.woodward@ctp-afjv.com.au. [Learn why this is important](#)

Hi David,

I reached out via phone this morning to follow up on comments on documents provided to Inner West Council for review for the Sydney Metro West Central Tunnelling Package project.

To date the Acciona Ferrovia Joint Venture has provided the following documents to Inner West Council for their opportunity to comment:

- Noise and Vibration Management Plan including Monitoring Program
- Flora and Fauna Management Plan
- Soil and Water Management Plan including Monitoring Program
- Heritage Management Plan
- Spoil Management Plan

Could you please confirm if Council is intending on providing comment on these documents, as the review period has now reached completion.

Thanks,
ew



Erran Woodward
Environmental Approvals Manager
Acciona Ferrovia Joint Venture

*Sydney Metro West
Central Tunnelling Package
+61 437 343 178*

Erran Woodward

From: Sarah Kacir <sarah.kacir@strathfield.nsw.gov.au>
Sent: Friday, 10 September 2021 3:01 PM
To: Erran Woodward
Cc: Stephen Clements; Bradley Pope; Terrence Wong; Patrick Wong
Subject: RE: Pending comments from Strathfield Council - Spoil Management Plan - 10-9-2021

Hi Erran,

Thank you for the opportunity to assess these documents.

On behalf of Council, I have reviewed the Spoil Management Plan.

I note the following comments;

1. All stockpiles, whether containing contaminated material or not should be covered at all times. The report has noted that: *"if stockpiles remain more than a few weeks, the stockpiles will be covered"*
2. Further clarification and assessment is required on the effects the spoil haulage and stockpiling will have on Mason Park Wetland. The North Strathfield Station is in a close proximity to the wetland, in addition to the route to Sydney Olympic Park Station.
3. The project contractor Acciona Ferrovia Joint Venture should create a specific Community Consultative Committee (CCC) to provide advice and share feedback on behalf of the local community for specific items such as noise, vibration, dust and other disturbances or concerns.
4. It is recommended that an EPA specific complaint and enquiry hotline is created for this project, the EPA is the ARA for this project, and will undoubtedly attract several complaints and enquiries from the community.

Kind regards,

Sarah



Sarah Kacir | Manager, Environmental Services
P 9748 9999
65 Homebush Rd, Strathfield NSW 2135
www.strathfield.nsw.gov.au



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📱 COVID-19 Health Updates | 📄 health.gov.au or 📞 24/7 Coronavirus Hotline 1800 020 080

From: Terrence Wong

Sent: Friday, 10 September 2021 2:39 PM

To: Erran.Woodward@ctp-afjv.com.au

Cc: Stephen Clements <stephen.clements@strathfield.nsw.gov.au>; Bradley Pope <bradley.pope@strathfield.nsw.gov.au>; Sarah Kacir <sarah.kacir@strathfield.nsw.gov.au>

Subject: RE: Pending comments from Strathfield Council

Hi Erran,

Thanks for sending through the report for Council's comment.

On behalf of Stephen, I've reviewed the Noise and Vibration Management Plan including Monitoring Program.

The acoustic report indicated minimal impact on Strathfield LGA's residents, most notably within Noise Catchment area 10 (NCA 10). Based on the proposed metro rail alignment, at this stage Strathfield Council is satisfied with the noise mitigation measures and monitoring program put in place to ensure compliance.



Terrence Wong | *Development Compliance Officer*

P 9748 9999

65 Homebush Rd, Strathfield NSW 2135

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📱 COVID-19 Health Updates | 📄 health.gov.au or 📞 24/7 Coronavirus Hotline 1800 020 080

From: Erran Woodward [<mailto:Erran.Woodward@ctp-afjv.com.au>]

Sent: Friday, 10 September 2021 1:56 PM

To: Stephen Clements <stephen.clements@strathfield.nsw.gov.au>

Cc: Lorryn Williamson <Lorryn.Williamson@ctp-afjv.com.au>; Ankur Arora <Ankur.Arora@transport.nsw.gov.au>

Subject: Pending comments from Strathfield Council

Hi Stephen,

Following our chat this morning, I am reaching out to follow up on comments on documents provided to Strathfield Council for review for the Sydney Metro West Central Tunnelling Package project.

To date the Acciona Ferrovia Joint Venture has provided the following documents to Strathfield Council for their opportunity to comment:

- Noise and Vibration Management Plan including Monitoring Program
- Flora and Fauna Management Plan
- Soil and Water Management Plan including Monitoring Program
- Heritage Management Plan
- Spoil Management Plan

Could you please confirm if Council is intending on providing comment on these documents, as the review period has now reached completion.

Thanks,
ew



Erran Woodward
Environmental Approvals Manager
Acciona Ferrovia Joint Venture

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From: [Kerry Darcovich](#)
To: [Julie Currey](#)
Subject: FW: TRIMs: METRO TUNNELLING CEMP - KD review
Date: Wednesday, 22 September 2021 12:11:48 PM
Attachments: [AFJV Comments Review sheet - Template.xlsx](#)

From: Kerry Darcovich
Sent: Wednesday, 1 September 2021 4:16 AM
To: Richard Seaward <Richard.Seaward@sopa.nsw.gov.au>
Cc: Sally Hamilton <Sally.Hamilton@sopa.nsw.gov.au>; Vivienne Albin <Vivienne.Albin@sopa.nsw.gov.au>; Julie Currey <Julie.Currey@sopa.nsw.gov.au>
Subject: TRIMs: METRO TUNNELLING CEMP - KD review

Hi Richard – please see my comments in the attached spreadsheet, also in the directory. I have not added in my comments previously provided re the Flora and Fauna report

I don't want a further meeting with AFJV- I just want to see the missing information.

Kerry

From: Richard Seaward <Richard.Seaward@sopa.nsw.gov.au>
Sent: Thursday, 26 August 2021 1:29 PM
To: Kerry Darcovich <Kerry.Darcovich@sopa.nsw.gov.au>; Julie Currey <Julie.Currey@sopa.nsw.gov.au>; Hassan Narimani <Hassan.Narimani@sopa.nsw.gov.au>; David Martin <David.Martin@sopa.nsw.gov.au>; Andrzej Listowski <Andrzej.Listowski@sopa.nsw.gov.au>; Stephen Kennett <Stephen.Kennett@sopa.nsw.gov.au>; Michael Copping <Michael.Copping@sopa.nsw.gov.au>; Susan Skuodas <Susan.Skuodas2@sopa.nsw.gov.au>; Grant Sutcliffe <Grant.Sutcliffe@sopa.nsw.gov.au>
Cc: Sally Hamilton <Sally.Hamilton@sopa.nsw.gov.au>; Vivienne Albin <Vivienne.Albin@sopa.nsw.gov.au>; John Ferguson <John.Ferguson@sopa.nsw.gov.au>
Subject: METRO TUNNELLING CEMP

<< File: AFJV Comments Review sheet - Template.xlsx >>

[X:\Metro Tunnelling Conditions](#)

Dear all,

Further to our meeting with AFJV please see the link to the management plans. The planning condition tracker and consent is also in the file

Please could you review the management plans and let me know if you have any comments by

Tuesday 31 / as discussed we can request a further meeting with AFJV once you have reviewed the plans – please let me know before Tuesday if you would like this?.

If you need to refer back to the SSI – please follow the link:

<https://www.planningportal.nsw.gov.au/major-projects/project/25631>

DPIE Reference: SSI-10038

If you haven't already provided comments – **please could you provide them on the AFJV Comments Review Excel sheet attached** (also saved in the X:drive folder) CC'ing Vivienne and Sally

Kerry – noted we have received your comments on F&F – the heritage noise and groundwater plans are now available.

Julie and Hassan- noted your comments received on the Spoil Management. Other reports are now available for your Review

Regards

Richard Seaward

Urban Planner

Sydney Olympic Park Authority

(02) 9714 7146 | 0452583337

Richard.Seaward@sopa.nsw.gov.au

Level 8, 5 Olympic Boulevard, Sydney Olympic Park, NSW, 2127

sydneyolympicpark.com.au

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From: [Sally Hamilton](#)
To: [Lorryn Williamson](#)
Cc: [Erran Woodward](#); [Richard Seaward](#)
Subject: RE: SMW-CTP Environmental Management Plans - Flora & Fauna Management Plan (Rev00)
Date: Tuesday, 17 August 2021 11:38:09 AM
Attachments: [image001.png](#)
[image002.png](#)

Hi Lorryn,

Thanks and I acknowledge receipt of this information. I have copied in Richard Seward who is our Urban Planner who will co-ordinate responses for the moment.

A kick-off workshop/discussion would be good with all the key SOPA staff that will need to provide responses so that they understand the scope of work, and the approvals to date (e.g it doesn't include station or overstation development at this time). Similar to what you showed John and I last week really. Would later next week suit? Say Thursday at 11.30am?

Cheers,

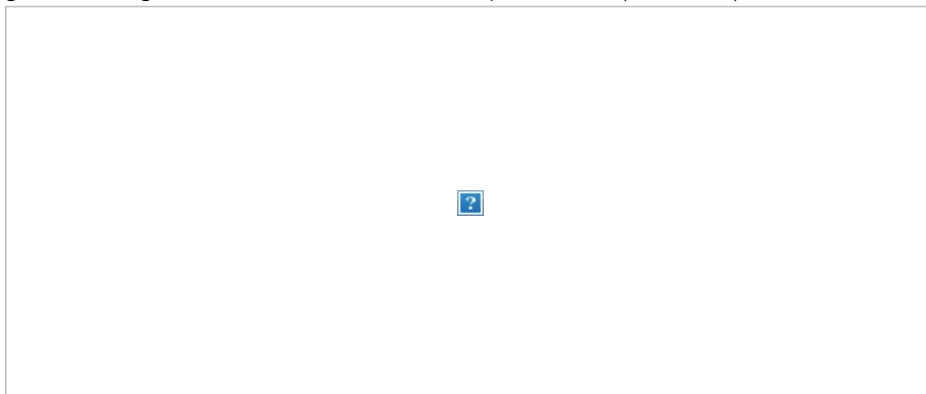
Sally

Sally Hamilton
Director, Environment and Planning
Sydney Olympic Park Authority
0419 229 259
9714 7140

From: Lorryn Williamson <Lorryn.Williamson@ctp-afjv.com.au>
Sent: Monday, 16 August 2021 9:37 PM
To: Sally Hamilton <Sally.Hamilton@sopa.nsw.gov.au>
Cc: Erran Woodward <Erran.Woodward@ctp-afjv.com.au>
Subject: SMW-CTP Environmental Management Plans - Flora & Fauna Management Plan (Rev00)
Importance: High

Dear Sally,

Thank you for your, Jenny's and John's time over Teams last week at our introductory discussion.
As discussed, Acciona Ferrovia Joint Venture (AFJV) are engaged with Sydney Metro to construct the tunnel and station boxes of the Sydney Metro West – Central Tunneling Package between The Bays and Sydney Olympic Park.
The project was approved with Conditions of Approval (SSI 10038) issued on 28 July 2021.
Condition C5 requires that a number of the CEMP Subplans required under Condition C1 are provided to relevant government agencies and stakeholders. The table provided is copied directly from Condition C5 for easy reference:



AFJV invites Sydney Olympic Park Authority to review the CEMP Subplan-Flora & Fauna Management Plan for the project.

Attached is an AFJV Comments Review Sheet – FFMP to record comments / feedback and to be returned to AFJV.
Please note that a Teambinder issue of the attached documents will be forthcoming in the 48 hours and for tracking of document review invitation.

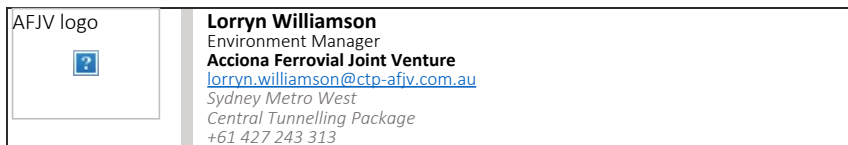
We are currently targeting a 10 business day review opportunity with comments back 1st September 2021.

AFJV noted from our initial meeting that your preference is that AFJV provide the opportunity for a workshop / discussion with the AFJV environment team to discuss the content of the plans.

We would be pleased to arrange for such a workshop / discussion as soon as possible and request that this be arranged through contacting myself or James Hayward, Interface Manager, Sydney Metro, James.Hayward@transport.nsw.gov.au. We can discuss in more detail this Flora & Fauna Management Plan plus other plans at a more targeted discussion.

Kind regards

Lorryn



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DATE	COMPANY	RAISED BY	REVIEW DOC. NO.*	DOCUMENT REF*	DEED REF*	COMMENTS / RESPONSE	COMMENT CATEGORY*
27/08/2021	CCB	JEARLS	SMWSTCTP-AFJ-1NL-PE-PLN-000002	NA	NA	The City of Canada bay would like to reuse 86,000 tonne to regrade Timbrell Park Sports fields. Council would like to use your 300mm plus sized hard sandstone to create environmental seawalls to continue to protect the parks which the seawalls support inclusive of sea level rise. Council has started this discussion with AFJV	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	NA	NA	Comment not related to content of the SMP. Discussions with AFJV have commenced with the City of Canada Bay Council to determined whether this request is possible.	Observation
28/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	NA	NA	In relation to the SMP there are two areas of interest for SOPA:• Details around management of contaminated spoil that may be generated by tunnelling and / or box excavation works;• Management of spoil at the ground surface resulting from the Sydney Olympic Park box excavation It is noted that further site investigation work is proposed to better understand the ground conditions and minimise the risk of unexpected discovery of contaminated soils during excavation works and facilitate the development of excavation zones to enable segregation, which minimises mixing different classifications of spoil. The findings will also inform the preparation of a remediation plan and the process of contaminated spoil management. The RAP will need to address both management of contaminated spoil within the tunnel and at the ground surface	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	NA	NA	Noted. The RAP will address both management of contaminated spoil within the tunnel and at the ground surface	Observation
25/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	The SMP indicated that at the ground surface, materials that are contaminated will be loaded directly onto licensed transport vehicles for off-site disposal. Stockpiling of contaminated soils is not considered unnecessary but if stockpiling of contaminated soils is necessary, the stockpiles will be labelled with signage. If stockpiles are to remain more than a few weeks, the stockpiles will be covered. • Allowing contaminated stockpiles to be stored uncovered for several weeks is not considered acceptable practice. Contaminated material stockpiles stored outside should be sealed or covered at the end of each day (or as soon as practical) to prevent generation of odour, dust and the generation of contaminated wastewater and protect public amenity. • The SMP should outline the requirement for stockpiling of different materials including contaminated stockpiles including the need for adequate sediment erosion control to manage runoff and minimise generation of contaminated wastewater. The general procedures for clean stockpiles, contaminated stockpiles and PASS/ASS stockpiles should be outlined with cross reference to the Sediment and Erosion Control Plan, CEMP and RAP for detailed procedures. • The SMP indicates that stockpiles of up to 6M will be used. The SMP and related plans such as the RAP should address the appropriate heights and slope for each different stockpile type and how this will manage risks. The height of any contaminated spoil stockpiles that need to be stored at the surface should generally be minimised to reduce the risk of off-site odour and dust particularly if stockpiles are not covered. • The SMP should indicate that if asbestos is identified during the further site investigations, and Asbestos Management Plan will need to be prepared and/or the management of any asbestos waste will be addressed in the RAP.	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	~Text amended in Section 5.1.1 to state that stockpiling of contaminated material will be avoided where possible, but if stockpiling is required the stockpiles will be covered on a daily basis unless the RAP or a contam land specialist deems it not necessary. ~ Included reference to the Soil and Water Management Plan and the site specific Progressive Erosion and Sediment Control Plans. ~ A reference has been added That stockpiling will only be carried out in accordance with the Soil and Water Management Plan and the site specific Progressive Erosion and Sediment Control Plans, which will be developed in accordance with the Blue Book. ~Discovery of asbestos is addressed in the Soil and Water Management Plan and the unexpected finds procedures which is an appendix to the SWMP.	Observation
25/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	The SMP indicates that a detailed excavation planning will be completed for applicable sites following in situ waste classification. This planning will allow targeted removal of contamination based on location and exposure risk, e.g., removal of hotspots to reduce risk of cross contamination. In relation to the Sydney Olympic Park site given the tunnelling will proceed under the Former Golf Driving Range regulated landfill and sensitive habitat areas, the detailed excavation plan for SOP including the station box excavation should be prepared in consultation with SOPA to ensure all risks are adequately addressed.	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Noted. Tunnelling is not going to be addressed in the current revision of this plan, and will be included once tunnelling planning can be completed. Regardless, once the RAP and detailed excavation plans have been developed, SOPA will be consulted.	Observation
25/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	SMM 15 states that an Unexpected finds protocols will be prepared for the works. This protocol should also be prepared in consultation with SOPA for works within SOP to ensure compliance with any regulatory requirements under SOPA CLM Act Notice.	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Unexpected finds procedure is included in the SWMP. SWMP has also been sent to SOPA for consultation.	Observation
25/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Section 8.3 - Compliance this section does not outline the roles and responsibilities of the Site Auditor that is required to be appointed in relation to the preparation of the RAP for the areas of the alignment, including SOP where contamination may be encountered	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Site auditor responsibilities has been outlined in the SWMP, where contaminated land is being addressed.	Observation
25/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Condition D84 – States that the primary egress routes for spoil haulage trucks at Sydney Olympic Park metro station construction site must be determined in consultation with SOPA. It should be noted that given the scale of the project, there is a risk that trucks may need to stack on roads as they wait to get into the Metro site to load spoil. The primary ingress and egress routes should e considered including how trucks will be managed to avoid traffic congestion as they enter and exit the Metro site.	Observation

DATE	COMPANY	RAISED BY	REVIEW DOC. NO.*	DOCUMENT REF*	DEED REF*	COMMENTS / RESPONSE	COMMENT CATEGORY*
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Construction Traffic Management Plans are required to be developed to comply with CoA D85 and the haulage routes will be consulted with SOPA as part of their development in accordance with D84.	Observation
25/08/2021	SOA	JCURREY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	The SMP states that spoil will be managed with consideration of impacts to residents and other sensitive receivers. As SOP is an events precinct and regional recreational space consideration of impacts on park visitor should be specifically addressed.	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Construction Traffic Management Plans are required to be developed to comply with CoA D85 and the haulage routes will be consulted with SOPA as part of their development in accordance with D84.	Observation
25/08/2021	SOA	SHAMILTON	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	necessary to emphasise the proximity of the site to the northern water feature and emphasise the sensitivity of water and soil management in SOPA. - Comment by HN	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	It has been noted that the Northern Water Feature has been included in comments in a number of plans. We don;t think the Spoil Management Plan is the best place to address these concerns. Soil and Water Management Plan, Groundwater Management Plan, Flora and Fauna Management Plan and Air Quality Management Plan will suitably manage these concerns.	Observation
10/09/2021	IWC	DCROSBY	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Is there a way to ensure that the council streets will be cleaned? Which council street will be impacted the most(i.e. what streets around the tunnel dive site at The Bays?)	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Street sweeping and road cleaning etc are covered in the Soil and Water Management Plan and Air Quality Management Plan. Yes, roads around the exits of the Project sites will be regularly cleaned and managed to ensure the Project is not causing water or generating excessive dust from mud tracking.	Observation
10/09/2021	STF	SCLEMENTS	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	All stockpiles, whether containing contaminated material or not should be covered at all times. The report has noted that: "if stockpiles remain more than a few weeks, the stockpiles will be covered"	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	This statement has been deleted. Non-contaminated material stockpiles will be managed in accordance with the Blue Book requirements and these requirements will be included in the site specific Progressive Erosion and Sediment Control Plans and the Soil and Water Management Plan. Contaminated material stockpiling will be avoided where possible. If it has to occur, stockpiles will be managed in accordance with the site specific Remediation Action Plan (RAP). Text also included to state that these stockpiles will be covered daily except where it is deemed to not be required by the RAP or a contam land specialist.	Observation
10/09/2021	STF	SCLEMENTS	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Further clarification and assessment is required on the effects the spoil haulage and stockpiling will have on Mason Park Wetland. The North Strathfield Station is in a close proximity to the wetland, in addition to the route to Sydney Olympic Park Station. - Comment by Sarah Kacir	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	In general, this Spoil Management Plan is not really meant to cover erosion and sediment control, there is a Soil and Water Management Plan that will manage all aspects of erosion and sediment control, contaminated land, potential acid sulfate soils and asbestos containing material. The Air Quality Management Plan will manage dust and other air quality aspects. The Waste Management Plan will work side by side this Spoil Management Plan to manage waste.	Observation
10/09/2021	STF	SCLEMENTS	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	The project contractor Acciona Ferrovia Joint Venture should create a specific Community Consultative Committee (CCC) to provide advice and share feedback on behalf of the local community for specific items such as noise, vibration, dust and other disturbances or concerns. - Comment by Sarah Kacir	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	AFJV has a detailed Community Communications Strategy that outlines what mitigation measures would be implemented and what tools what be used to engage and communicate with the community including but not limited to, regular notifications, site specific newsletters, site open and meet the team days, project website, email distributions lists, use of the Sydney Metro Connect app. Furthermore a dedicated community place manager is assigned to manage community engagement at the North Strathfield and Burwood North sites and will very quickly establish relationships that will allow for prompt resolution of any concerns and easy two way flow of information.	Observation
10/09/2021	STF	SCLEMENTS	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	It is recommended that an EPA specific complaint and enquiry hotline is created for this project, the EPA is the ARA for this project, and will undoubtedly attract several complaints and enquiries from the community. - Comment by Sarah Kacir	Observation
21/09/2021	AFJV	CW	SMWSTCTP-AFJ-1NL-PE-PLN-000002	General	NA	Sydney Metro has an established 24/7 community complaints hotline that if a complaint related to CTP work is received would divert the call to an AFJV on call team member to respond to within 2 hours.	Observation

APPENDIX D WASTE DISPOSAL SITE REGISTER TEMPLATE

Sydney Metro West - Central Tunnelling Package

Active Waste Disposal Sites Register

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