

Site Establishment Management Plan

Kamay Ferry Wharves


June 2023





DOCUMENT CONTROL

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APPROVAL AND AUTHORISATION

Endorsed by Environmental Representative (ER)	Richard Peterson Environmental Representative (ER), Director – Trigalana Environmental PTY LTD
Signed	
Dated	14/06/23

Approved on behalf of Transport for NSW	Tony Matthews Authorised Delegate – Kamay Ferry Wharves Project, Maritime, Greater Sydney Transport for NSW
Signed	
Dated	14/06/23

Approved on behalf of McConnell Dowell	Adam Adamczewski Project Manager – Kamay Ferry Wharves Project, McConnell Dowell
Signed	
Dated	14-06-23



REVISION HISTORY

Rev	Date	Details	Author	Reviewer
A	06/12/2022	Draft SEMP	M Jones	A Adamczewski
B	18/01/2023	Updated to address TfNSW & ER comments	M Jones	A Adamczewski
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E	05/05/2023	Updated site compound map for Kurnell	M Jones	A Adamczewski
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G	25/05/2023	Updated to address DPE Comments	M Jones	A Adamczewski
H	02/06/23	Update to address DPE Comment	M Jones	A Adamczewski

LIST OF EMERGENCY AND KEY CONTACTS

Position	Name	Phone
EPA pollution hotline	-	131 555
Fire and Rescue NSW	-	000 (for pollution incidents that present an immediate threat to human health or property) 1300 729 579 (for pollution incidents that do not present an immediate threat to human health or property)
NSW Health	Prince of Wales Hospital	02 9382 2222
	Sutherland Hospital	02 9540 7111
SafeWork NSW	-	131 050
Randwick City Council	-	9093 6000
Sutherland Shire Council	-	9710 0333
24-hour community information line	-	1800 718 556
Project Manager	Adam Adamczewski	
Environment & Sustainability Lead	Mitch Jones	



Supervisor	Colin Ford	
Transport for NSW Representative	Tony Matthews	
Transport for NSW Environmental Representative	Chris Williams	
Environmental Representative (ER)	Richard Peterson	



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GLOSSARY / ABBREVIATIONS

Abbreviation	Expanded Text
CEMP	Construction Environmental Management Plan
CEMS	Contractors Environmental Management System
CEP	Construction Execution Procedure
CCS	Community Communication Strategy
CMO	HSEQ compliance database software
Compliance audit	Verification of how implementation is proceeding with respect to a Construction Environmental Management Plan (which incorporates the relevant approval conditions).
CoA	Conditions of approval
Contractor	McConnell Dowell Constructors (Aust) Pty Ltd.
DCCEEW	Commonwealth Department of Climate Change, Energy, the Environment and Water
DPI Fisheries	NSW Department of Primary Industries, Fisheries
DPE	NSW Department of Planning and Environment
DPE Water	Water Group of the Department of Planning and Environment
EEC	Endangered Ecological Community
EESG	Environment, Energy and Science Group of the Department of Planning, Industry and Environment (former NSW Office of Environment and Heritage)
EIS	Environmental Impact Statement
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 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 incident	An unexpected event that has, or has the potential to, cause harm to the environment and requires some action to minimise the impact or restore the environment.
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.
Environmental policy	Statement by an organisation of its intention and principles for environmental performance.
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i> (NSW)
EPA	NSW Environment Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i> (Commonwealth)
EPBC-CoA	Federal Conditions of Approval under the EPBC Act
EPI	Environment Protection Instruction
EPL	Environment Protection Licence
Environmental Representative	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of works for the SSI. The principal point of advice in relation to all questions and complaints concerning environmental performance.



ERG	Environmental Review Group – generally comprising representatives of Transport for NSW, Environmental Representative, Project delivery team, regulatory authorities, National Parks and Wildlife Service and councils (Randwick City Council, Sutherland Shire Council). The ERG will be maintained for the duration of the Project and will meet regularly and undertake environmental inspections. The role the ERG is to work collaboratively with the project team to provide proactive advice on environmental management issues on the Project.
ESCP	Erosion and Sediment Control Plan
Environmental target	Defined by AS/NZS ISO 14001:2015 as a detailed performance requirement, applicable to the organisation or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.
EWMS	Environmental work method statement
Heritage NSW	Heritage NSW, Department of Premier and Cabinet
Hold point	Is a verification point that prevents work from commencing prior to approval from Transport for NSW
HSEQ	Health, Safety, Environment and Quality
JSEA	Job Safety and Environment Analyses
LALC	Local Aboriginal Land Council
Minister, the	NSW Minister for Planning and Public Spaces
MCoA	NSW Minister for Planning and Public Spaces Conditions of Approval
MMS	McConnell Dowell Management System
Non-compliance	Failure to comply with the requirements of the Project approval or any applicable licence, permit or legal requirements.
Non-conformance	Failure to conform to the requirements of Project system documentation including this CEMP or supporting documentation.
NPWS	NSW National Parks and Wildlife Service
PESCP	Progressive Erosion and Sediment Control Plan
Principal, the	Transport for NSW
POEO Act	<i>Protection of the Environment Operations Act 1997</i> (NSW)
Project, the	Kamay Ferry Wharves
RAP	Registered Aboriginal Party
Relevant Council(s)	Randwick City Council and Sutherland Shire Council
REMMs	Revised Environmental Management Measures
Roads and Maritime	Roads and Maritime Services
RMS - Roads and Maritime	Now Transport for NSW (TfNSW)
SEAR's	Secretary's Environmental Assessment Requirements
SEMP	Site Establishment Management Plan (this plan)



SSI	State Significant Infrastructure
TfNSW	Transport for NSW



1 INTRODUCTION

1.1 CONTEXT

This Site Establishment Management Plan (SEMP) has been developed for the Kamay Ferry Wharves Project (the Project).

This SEMP has been prepared to address the requirements of the Minister's Conditions of Approval (MCoA), *Environment Protection and Biodiversity Conservation Act 1999* (EPBC) Conditions of Approval (EPBC-CoA) and the Revised Environmental Management Measures (REMMs) listed in the Kamay Ferry Wharves Environmental Impact Statement (EIS) and all applicable legislation.

This SEMP describes how McConnell Dowell Constructors (Aust) Pty Ltd (McConnell Dowell) will minimise and manage environmental impacts associated with site establishment and operation of construction compounds for the project.

This SEMP will be endorsed by the project Environmental Representative (ER) and submitted to DPE for approval one month before the establishment of any construction ancillary facilities.

Establishment of Site Compounds (not including minor construction ancillary facilities) will not commence until the SEMP has been endorsed by the ER and approved by the Planning Secretary.

1.2 BACKGROUND

Transport for New South Wales (Transport for NSW) has gained approval to reinstate the ferry wharves at La Perouse and Kurnell in Botany Bay (the project). This will allow for an alternative connection between La Perouse and Kurnell other than by road. The primary purpose of this infrastructure is to operate a public ferry service. It will also provide supplementary temporary mooring for non-ferry commercial vessels (such as whale watching vessels) and recreational boating. A ferry service previously operated in this location until 1974 when a heavy storm caused significant damage to the infrastructure.

This project is recognised as a priority under the Kamay Botany Bay National Park Plan of Management (Department of Planning, Industry and Environment (DPE), 2020) and associated master plan to deliver improved visitor amenity and access, provide new experiences and acknowledge the diversity of stories associated with place. The project also supports the Kamay 2020 Project, which commemorates 250 years since the encounter between Aboriginal Australians and the crew of the HMB Endeavour.

The reinstatement of the ferry wharves is considered transport infrastructure and therefore is to be delivered by Transport for NSW, separate to the rest of the Kamay National Park Kurnell Master Plan which is to be delivered by NSW National Parks and Wildlife Service (NPWS).

A detailed description of the Project is provided Chapter 5 of the EIS

1.3 SCOPE OF THIS SEMP

This Site Establishment Management Plan (SEMP) is related to site establishment of the following Construction Ancillary Facilities to support the Kamay Ferry Wharves construction works:

- La Perouse Compound
- Kurnell Compound

The SEMP details the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities. In accordance with MCoA A20, the SEMP was developed to address requirements outlined in Table 1-1.



Table 1-1 MCoA A20 requirements and SEMP Structure

MCoA	Requirement	Addressed in
A20	Before the establishment of a construction ancillary facility that is required prior to the approval of a CEMP (excluding minor construction ancillary facilities determined by the ER to have minimal environmental impact and those established under Condition A22), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities.	This Plan
	The Site Establishment Management Plan must be prepared in consultation with the relevant council and government agencies.	Section 2.1
	The Plan must be submitted to the Planning Secretary for approval one month before the establishment of any construction ancillary facilities.	Section 3
	The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:	
	a) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of work to be undertaken at the site);	
	b) figures illustrating the proposed operational site layout and the location of the closest sensitive land use(s);	Appendix C
	c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to the commencement of site establishment work;	Section 8.1
	d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to:	Section 9.6
	i. meet the performance outcomes stated in the documents listed in Condition A1; and	
	ii. manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and	Section 8.1 Appendix D
e) a program for monitoring the performance outcomes, including a program for construction noise monitoring.	Section 11.6	
Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.	Noted	
Note: This plan is only needed before a CEMP is approved. Once a CEMP is approved a Site Establishment Management Plan(s) is not required	Noted	

This SEMP is applicable to all activities during site establishment of construction ancillary facilities of the project, including all areas where physical works will occur, or areas that may be otherwise impacted by the establishment works, and under the control of McConnell Dowell. All McConnell Dowell staff and sub-contractors are required to operate fully under the requirements of this Plan.

The use of a construction ancillary facility for construction (excluding minor construction ancillary facilities as described in Section 10.1) must not commence until the Kamay Ferry Wharves Construction Environmental Management Plan (CEMP) and Subplans have been reviewed and endorsed by the TfNSW Environment Manager (or delegate), the independent Environmental Representative (ER) and are approved by the Planning Secretary in accordance with condition A21.

A copy of this Plan will be kept on the premises for the duration of site establishment.



1.4 ENVIRONMENTAL MANAGEMENT SYSTEMS OVERVIEW

1.4.1 ENVIRONMENTAL MANAGEMENT SYSTEM (EMS)

McConnell Dowell operates an ISO 14001 accredited Environmental Management System that forms part of the fully integrated McConnell Dowell Management System (MMS). The MMS provides the framework for managers to implement specified corporate standards and practices in a consistent manner. It defines the application of work practices, processes, and systems for engineering/design, acquisition of materials, equipment and services, construction (including site establishment), and other services related to tendering and project execution.

The environmental management framework applicable to the project is shown diagrammatically below (Figure 1-1) and elements of the framework explained below (Section 1.4.2 – 1.4.8).

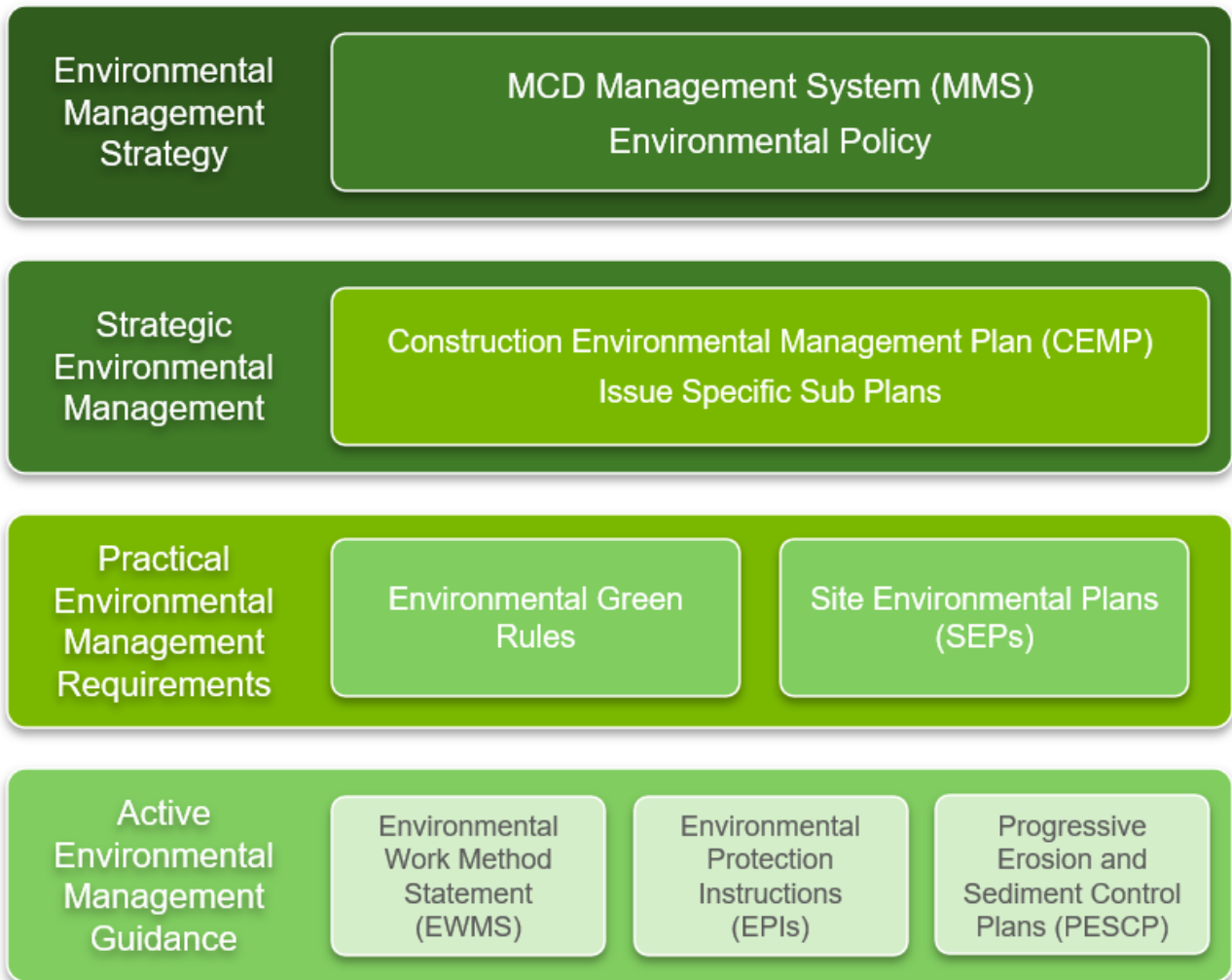


Figure 1-1 McConnell Dowell Environmental Management System (EMS)

1.4.2 MCCONNELL DOWELL ENVIRONMENT AND SUSTAINABILITY POLICY

Outlines the commitments and intentions established by McConnell Dowell to ensure environmental performance and sustainability objectives and targets are achieved (Appendix A of the SEMP).



1.4.3 SITE ESTABLISHMENT MANAGEMENT PLAN (SEMP)

The SEMP (this Plan) details the processes and procedures to be implemented during establishment of construction ancillary facilities as identified in the EIS, to comply with applicable MCoA, REMMs, legislative obligations and contractual requirements. The relevant compliance obligations are detailed in Section 5 and Appendix C with a cross reference to where they are met in this Plan.

1.4.4 CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP)

The CEMP provides a system and set of procedures to ensure that sound and effective controls are established and maintained to manage potential environmental impacts throughout the Project and, wherever practicable, to deliver positive environmental outcomes. As part of our commitment to continuous improvement we will take a proactive approach to environmental management for the Project. The document is therefore based upon a risk management process where the environmental risks associated with each element of the Project are identified and assessed, and appropriate mitigation strategies implemented to eliminate or minimise the subsequent risk.

The Construction Environmental Management Plan will be developed to support construction activities and does not form part of this SEMP.

1.4.4.1 ISSUE SPECIFIC SUB-PLANS

Documents that focus on specific environmental issue in detail (e.g., noise and vibration), outlining risks, opportunities, mitigation and management measures in relation to that environmental issue.

1.4.5 ENVIRONMENTAL GREEN RULES

McConnell Dowell has developed a suite of ten environmental management rules set to enforce positive messages about what is expected as a minimum standard on site to minimise our impact on the natural environment and local community, Environmental Green Rules are outlined in Appendix G.

1.4.6 SITE ENVIRONMENTAL PLANS (SEP)

Site Environmental Plans (SEPs) are spatial representations, in the form of an aerial photographs developed for a specific footprint of the Project to illustrate the key site features relating to environmental management. The SEPs are a consolidation of environmental and socially sensitive areas, sites or places shown on a series of map-based sheets that extend the length of the Site and will be developed to meet the requirement of a 'Sensitive Area Plan' (SAP) and will be updated throughout site establishment as required.

Refer to Section 9.2 for details on Site Environmental Plan preparation and requirements.

1.4.7 ENVIRONMENTAL WORK METHOD STATEMENTS (EWMS)

Environmental work method statements (EWMS) are prepared to manage and control all high-risk activities and others that have the potential to negatively impact on the environment. EWMS will be prepared prior to the commencement of relevant activities and will incorporate relevant mitigation measures and controls, including those from relevant management sub plans. They also identify key procedures to be used concurrently with the EWMS.

EWMS are specifically designed to communicate requirements, actions, processes and controls to personnel using plans, diagrams and simply written instructions.

See Section 9.1 for details of the EWMS preparation and approval requirements.



1.4.8 PROGRESSIVE EROSION AND SEDIMENT CONTROL PLANS (PESCPS)

Progressive Erosion and Sediment Control Plans (PESCPS) will be developed prior to site establishment to outline where environmental controls should be located on site to provide adequate mitigation against erosion and sediment loss from the Project.

The PESCPS will be prepared in accordance with:

- Volume 1 of Managing Urban Stormwater: Soils and Construction (Blue Book) (Landcom 2004)
- Managing Urban Stormwater: Soils and Construction – Installation of Services, Volume 2A (OEH 2008)
- Managing Urban Stormwater: Soils and Construction – Main Road Construction, Volume 2D (OEH 2008).
- Advice from a suitably qualified or Certified Professional in Erosion and Sediment Control (as required).

See Section 9.3 for details of the EWMS preparation and approval requirements.

1.4.9 PROCEDURES, FORMS AND OTHER DOCUMENTS

Project specific procedures will be developed by McConnell Dowell as required. Where applicable, existing McConnell Dowell procedures and work instructions will be applied or amended for use during site establishment work.

1.4.10 INTERACTIONS WITH OTHER MANAGEMENT PLANS

This Plan has the following interrelationships with other management plans and documents:

- Community Communication Strategy (CCS) which details procedures and processes for community notification, consultation and complaints management.
- Workplace Health & Safety Management Plan, which addresses safety risk management including safety of workers in the event of emergency and incident management.



2 CONSULTATION

2.1 CONSULTATION FOR PREPARATION OF THE SEMP

The SEMP has been prepared in consultation with the relevant Council(s) and government agencies and will be approved by the DPE prior to the establishment of major construction ancillary facilities. Government agencies and stakeholders outlined in Table 2-1 have been consulted during the development of this SEMP, in accordance with MCoA A20.

Table 2-1 Site Establishment Management Plan consultation

Stakeholder	Date	Status
Randwick City Council	May 2023	Closed
Sutherland Shire Council	May 2023	Closed
National Parks and Wildlife Service	May 2023	Closed
Heritage NSW	May 2023	Closed

2.2 ONGOING CONSULTATION DURING SITE ESTABLISHMENT

Ongoing consultation during site establishment will be managed in accordance with this plan and the Community Communication Strategy.



3 ENDORSEMENT AND APPROVAL

The SEMP has been prepared to satisfy the MCoA in relation to site establishment works during the delivery of the Project, particularly NSW MCoA A20.

This SEMP has been reviewed by the TfNSW Environment Manager (or delegate) and the independent Environmental Representative (ER) to confirm it is consistent with, and incorporates, all relevant elements of the environmental requirements prior to submission to DPE.

The SEMP must be endorsed by the ER prior to submission to the Planning Secretary for approval no later than one month before the establishment of the construction ancillary facilities.

The SEMP must be approved before the commencement of site establishment works of the construction ancillary facilities (excluding minor construction ancillary facilities established under MCoA A22).

The use of a construction ancillary facility for construction will not commence until the CEMP and relevant CEMP Sub-plans and relevant Construction Monitoring Programs have been approved by the Planning Secretary, unless the ER has determined that the use of the facility will have a minimal impact on the environment and community. This does not apply however to minor construction ancillary facilities established under Condition A22.



4 PURPOSE AND OBJECTIVES

4.1 PURPOSE

The purpose of this Plan is to describe how impacts associated with site establishment of construction ancillary facilities, including minor ancillary facilities, for the Kamay Ferry Wharves project will be minimised and managed.

4.2 OBJECTIVES

The key objective of the SEMP is to ensure that impacts to the local community, built environment and natural environment from site establishment activities are minimised. To aid in achieving this objective all MCoA, REMMs and licence/permit requirements relevant to site establishment are described, scheduled and assigned responsibility, as outlined in:

- The EIS prepared for the Project
- Ministers Conditions of Approval (MCoA) granted to the project on 21st July 2022.
- EPBC CoA granted to the project on 16th March 2023.
- All relevant legislation and other requirements described in Attachment B of this Plan.

4.3 TARGETS

The following targets have been established based on the specific sensitivities relevant to the establishment of ancillary facilities, to allow for full compliance with the relevant legislative requirements, MCoA, EPBC-CoA and REMMs. These performance outcomes are outlined in Table 4-1.

Table 4-1 Targets for the management of ancillary facilities establishment

Aspect	Target	Measurement Tool
Noise and Vibration	Minimise noise and vibration complaints by implementing appropriate management measures	Complaints Register
Water Quality	Minimise potential impacts to water quality	Environmental incident reports
Protection of Heritage	Ensure all known heritage items are protected prior to and during Site Establishment	Environmental incident reports
Incident Management	All environmental incidents will be appropriately managed to minimise their impact on the surrounding environment	Environmental incident reports
Compliance	Activities to establish and operate the site compounds will be compliant with the MCoA and EPBC-CoA and Environmental Impact Statement.	Compliance Tracking Register



5 ENVIRONMENTAL REQUIREMENTS

5.1 RELEVANT LEGISLATION AND GUIDELINES

In accordance with MCoA A6, references in the terms of this Plan to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in at the date of the Infrastructure Approval (CSSI 10049).

A summary of relevant legislation and guidelines has been included in Appendix C – Legal Requirements and Compliance Tracking.

5.2 HOLD AND WITNESS POINTS

Hold and Witness Points will be used during the project to achieve outcomes in terms of quality or performance expected in the finished product for projects and are relevant to various construction activities (including site establishment) on work sites to minimise impacts to the environment.

A Hold Point is a point beyond which a work process must not proceed without express written authorisation from TfNSW.

Witness Points are an identified point in the process where TfNSW request to, review, witness, inspect a method and/or process of work. The activities, however, may proceed. For processes under the SEMP, the request for release of Hold Points and Witness Points is to be made through the TfNSW Environmental Manager (or delegate).

Details of the Hold Points and Witness Points relevant to this Plan are outlined in Section 11.4.

5.3 APPROVALS, PERMITS AND LICENCES

In accordance with MCoA A4, McConnell Dowell will comply with all written requirements or directions of the Planning Secretary. The following approvals and licences have been or will be obtained by TfNSW:

- Infrastructure Approval under Part 5, Division 5.2 of the EP&A Act – SSI 10049 granted by the Minister of Planning on 21st July 2022
- Additional approvals required prior to the commencing of Site Establishment activities are outlined in Section 10.4.

McConnell Dowell will obtain the following licences, approvals or exemptions:

- Road Occupancy Licence (ROL) under Section 138 of the Roads Act 1993
- Exemptions to allow hot works to be undertaken on Total Fire Ban days as detailed under Section 99 of the Rural Fires Act 1997
- Specific Resource Recovery Exemptions, where determined

As outlined in section 2.3.1 of the EIS, the following approvals are not required for projects approved under Division 5.2 of the EP&A Act including:

- Permits under sections 201, 205 and 219 of the *Fisheries Management Act 1994* (NSW) to carry out dredging, reclamation works, to harm marine vegetation in protected areas or block fish passage.
- Approvals under Part 4 of the *Heritage Act 1977* (NSW) (to demolish, disturb or excavate a place, building, work, relic, moveable object, precinct or land to which an interim heritage order or listing on the State Heritage Register applies), section 139 (excavation permits).
- Aboriginal heritage permits under section 90 of the *National Parks and Wildlife Act 1974* (NSW).



- Various approvals under the *Water Management Act 2000* (NSW), including water use approvals under section 89, water management work approvals under section 90, and activity approvals (other than aquifer interference approvals) under section 91. Despite the approvals not being required, the proposed management measures in Chapter 17 (Soil, water and contamination) would ensure the protection of waterfront land.
- Schedule 1 of the Protection of the *Environment Operations Act 1997* (NSW) lists the activities that require the need for an Environment Protection Licence from the Environment Protection Authority. None of the proposed activities for the project trigger the need for an Environment Protection Licence.



6 CONSTRUCTION ANCILLARY FACILITIES

Construction ancillary facilities are required at La Perouse and Kurnell to support the construction of the project. They will include material stockpiling areas (including early stockpiling), construction support areas for plant & equipment, a main project office (La Perouse) and compound area, secondary offices (Kurnell) laydown areas.

The ancillary facilities would generally comprise:

- Temporary buildings including offices, meeting rooms, amenities and first aid facilities
- Hardstand parking areas with sufficient space to accommodate the numbers of workers expected at any site
- Materials laydown, storage and handling areas, including purpose-built temporary structures as required, and appropriately bunded storage for hazardous and non-hazardous substances
- Secure perimeter fencing, including visual screening of construction compounds where necessary.

6.1 SITE LAYOUT AND ACCESS

The locations of construction ancillary facilities for the project are detailed in Table 6-1 and illustrated in Figure 6-1 and Figure 6-2. Additional details on proposed use and indicative site layout are provided in Appendix C. The location of the construction ancillary facilities was selected to support the construction works in at La Perouse and Kurnell assessed in Section 5.5 of the EIS.

The ancillary facilities have been located away from sensitive land uses and receivers, where possible, and the internal layouts have been configured in a manner that considers noise and light impacts to sensitive receivers (e.g. use of buildings to shield noisy activities, minimising the requirement for reversing vehicles, or locating noise intensive activities to maximise the distance to noise sensitive receivers). The establishment of these construction ancillary facilities will not affect lawful uses of adjacent properties that are being conducted at the date upon which construction or establishment of the facility is to commence.

Site access points are illustrated in Appendix C and the requirements for site access is outlined in Section 7.1, and Site Environmental Plan for site establishment activities has been included in Appendix E.

Table 6-1 Construction Ancillary facility locations and purposes

Location	Approx. size (ha)	Purpose
La Perouse Compound	0.45	Stockpile and laydown area Main offices Amenities Vehicular access Car park
Kurnell Compound	0.74	Stockpile and laydown area Secondary offices Amenities Vehicular access Car park



Figure 6-1 Location of the La Perouse Site Compound

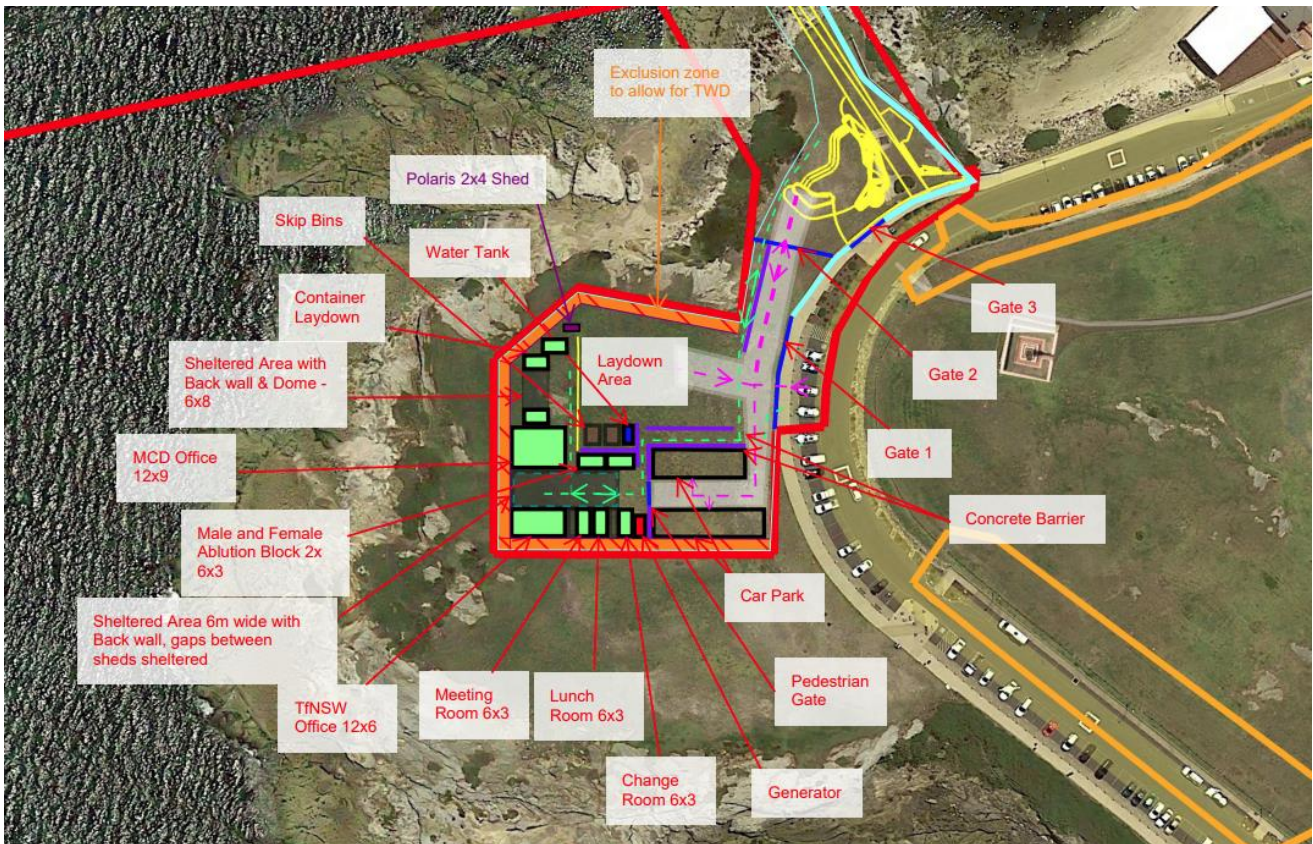


Figure 6-2 Layout of the La Perouse Site Compound - Refer to Appendix C for full Site Compound Plan



Figure 6-3 Location of the Kurnell Site Compound

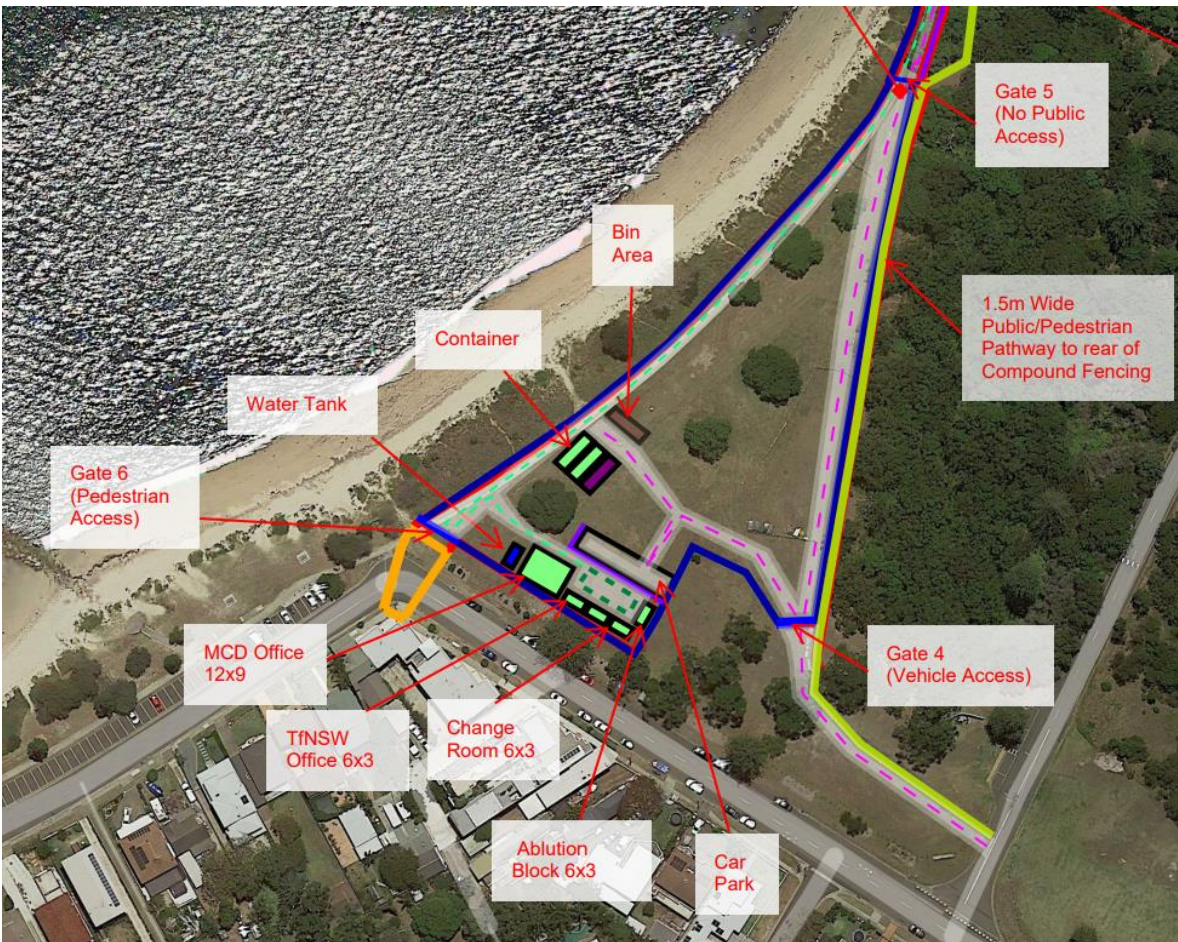


Figure 6-4 Layout of the Kurnell Site Compound South - Refer to Appendix C for full Site Compound Plan

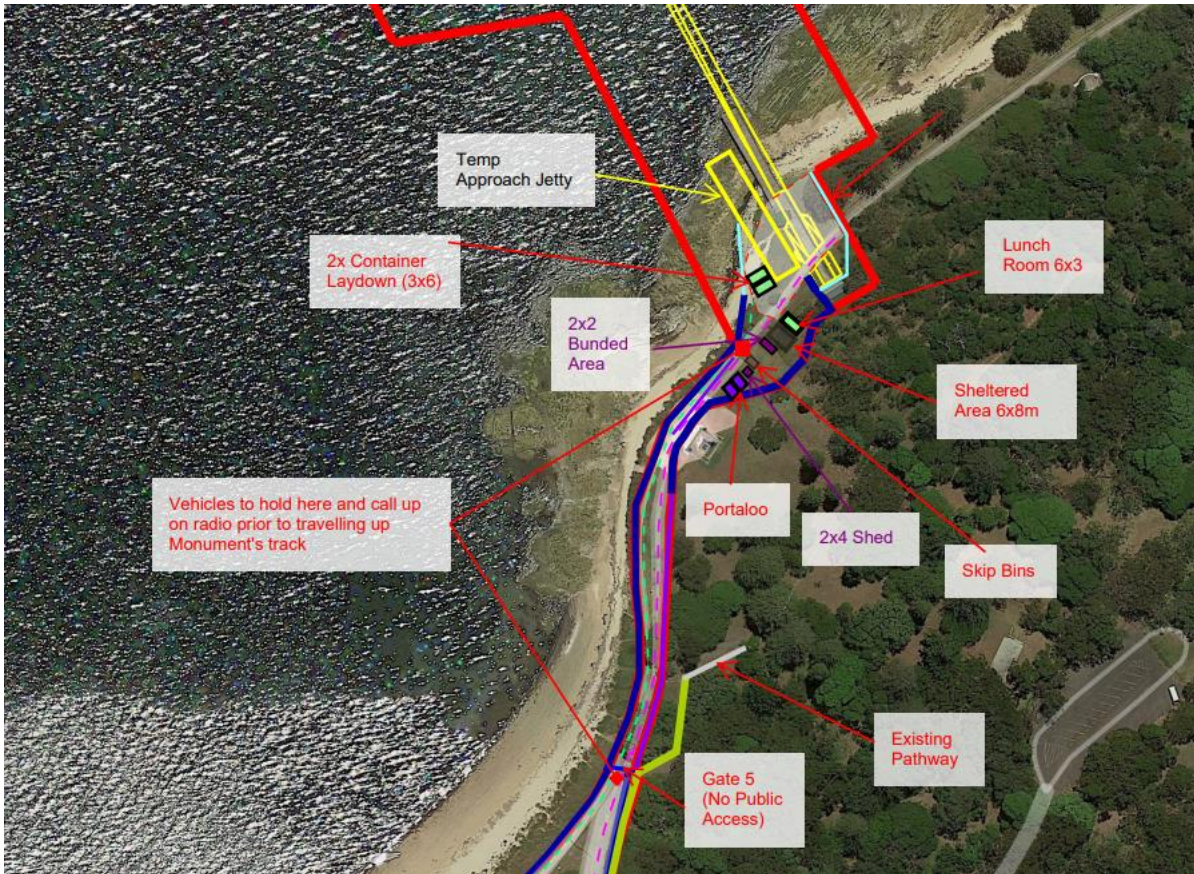


Figure 6-5 Layout of the Kurnell Site Compound North - Refer to Appendix C for full Site Compound Plan

6.2 BOUNDARY SCREENING AND SIGNAGE

In accordance with MCoA A23, boundary screening will be erected if adjacent to sensitive receivers and maintained for the duration of the project, and unless otherwise agreed with affected residents, business operators and landowners. Screening will minimise visual impacts to sensitive receivers and will incorporate Indigenous artwork wherever visible.

Boundary screening will comprise the following:

- Installation of Project branded shade cloth on perimeter fencing.
- Minimise visual impacts on adjacent sensitive land use
- Incorporate Indigenous artwork wherever visible
- Include the SSI name, application number, telephone number, postal address and email address

The existing vegetation around the perimeters will be retained and protected, where feasible and reasonable, to function as a visual screen and deterrent to graffiti. Locations of boundary screening adjacent to sensitive receivers is illustrated in Appendix C.

In accordance with MCoA A24 and B8, the following information will be displayed at the entrance of construction ancillary facilities that display the following information (as a minimum):

- SSI name and application number,
- 24-hour telephone number for the registration of complaints and enquiries about the SSI,
- A postal address to which written complaints and enquires may be sent,
- An email address to which electronic complaints and enquiries may be transmitted.



6.3 SITE ESTABLISHMENT ACTIVITIES

Key activities of the site establishment of the construction ancillary facilities (not included those covered in separate Low Impact Works Permits) may include:

- Installation of erosion and sedimentation control measures
- Establishment of Tree Protection Zones (TPZ) and Tree protection measures
- Removal of terrestrial vegetation where required to enable the establishment of site access roads and laydown
- Establishment of site fencing, signage and lighting
- Establishment of site access points, traffic management measures
- Delivery of materials including aggregates
- Installation laydown, access roads and hardstand areas
- Delivery and installation of offices, meeting rooms, lunchrooms, amenities, workshops and storage containers
- Delivery, storage and transfer of plant and equipment
- Fuel and chemical storage, refuelling and chemical handling
- Connection of utilities including water and power (includes ground penetrating works at Kurnell but not at La Perouse).
- Pump out of ablution facilities (as no sewer connection is available).

6.4 SCHEDULING AND DURATION

The site establishment activities will be scheduled to occur during the standard work hours (Section 6.6).

Site establishment duration is expected to take between 4-6 weeks per site and will commence with the installation with environmental controls as outlined in the applicable SEP and PESCP prior to works commencing onsite.

The commencement of site establishment is subject to approval of this plan and satisfaction of the hold points listed in Section 11.4.

6.5 PLANT AND EQUIPMENT

Plant and equipment expected to be used for site establishment of the project's ancillary facilities include:

- Small cranes and lifting equipment
- Excavators
- Dump truck
- Road trucks
- Light vehicles
- Fences
- Portable sheds/ablutions
- Generators
- Watercart
- Waste tanks
- Hand tools

6.6 WORKING HOURS

6.6.1 HOURS OF WORK

In accordance with MCoA E42, approved standard work hours are:

- 7:00 am to 6:00 pm Monday to Friday
- 8:00 am to 13:00 pm Saturday



- At no time on Sunday or public holidays.

6.6.2 VARIATION TO WORK HOURS

Although not expected, work can be undertaken outside the hours specified in any of the following circumstances:

a) Safety and Emergencies, including:

- for the delivery of materials required by the NSW Police Force or other authority for safety reasons; or
- where it is required in an emergency to avoid injury or the loss of life, to avoid damage or loss of property or to prevent environmental harm.

b) Low impact, including:

- (i) construction that causes L-Aeq(15 minute) noise levels:
 - no more than 5 dB(A) above the rating background level at any residence in accordance with the ICNG, and
 - no more than the 'Noise affected' NMLs specified in Table 3 of the ICNG at other sensitive land user(s); or
- (ii) construction that causes LAFmax(15 minute) noise levels no more than 15 dB(A) above the rating background level at any residence; or
- (iii) (iii) construction that causes:
 - continuous or impulsive vibration values, measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.2 of Assessing Vibration: a technical guideline (DEC, 2006), or intermittent vibration values measured at the most affected residence are no more than the preferred values for human exposure to vibration, specified in Table 2.4 of Assessing Vibration: a technical guideline (DEC, 2006).

c) By Approval, including:

- (i) where different construction hours are permitted or required under an EPL in force in respect of the SSI; or
- (ii) negotiated agreements with directly affected residents and sensitive land user(s).

d) By Prescribed Activity, including:

- (i) Piling between 10:00pm and 7:00am Monday-Friday inclusive and if endorsed by the ER:
- (ii) delivery of material that is required to occur outside of standard construction hours in Condition E42 to directly support Piling.

On becoming aware of the need for emergency work in accordance with this condition, McConnell Dowell will notify TfNSW and the ER, of the reasons for such work TfNSW will notify DPE and the EPA as required under MCoA E44. McConnell Dowell will notify all noise and/or vibration affected residents and owners/occupiers of properties identified sensitive land user(s) of the likely impact and duration of those work accordingly.



7 ENVIRONMENTAL ASPECTS AND IMPACTS

7.1 TRAFFIC AND TRANSPORT

All land-side traffic would reach the construction ancillary facilities using existing roads. At La Perouse, this would be via Anzac Parade, and at Kurnell this would be via Captain Cook Drive.

Table 7-1 Construction ancillary facilities access locations

Compound	Location	Haul Road	Access Point
La Perouse Compound	La Perouse Point (-33.988697, 151.229746)	Anzac Parade	Access via Anzac Parade
Kurnell Compound	Kamay Botany Bay National Park (-34.006649, 151.216622)	Captain Cook Drive	Access via Corner of Captain Cook Drive and Cape Solander Drive

Notes: marine-side traffic and access is not required for the establishment of ancillary facilities.

7.1.1 TRAFFIC CONTROL

In the event that traffic control is required during the site establishment works, site-specific Traffic Control Plan(s) (TCP) will be developed by the Traffic Manager (or delegate), conforming to AS 1742.3, and the TfNSW Traffic Control at Worksites Manual (TCWS). TCPs will contain detailed descriptions of the site establishment activities and the nature of the works addressed by that TCP.

TCPs must be prepared by a person(s) suitably experienced in the design and implementation of TCPs of equivalent complexity and holding qualifications acceptable to TfNSW, including as a minimum, a “Prepare a Work Zone Traffic Management Plan” qualification.

7.2 NOISE AND VIBRATION

Site establishment works for the construction ancillary facilities may result in potential noise and vibration impacts through the use of machinery, delivery of materials and installation of site sheds, fencing and other activities. Site establishment works will occur during standard work hours.

Chapter 15 of the EIS (Section 15.4.1) outlines the noise impacts for the project. Phase 1 (site establishment) noise impacts have been summarised in Table 7-2 and Table 7-3 below. The activities that are predicted to exceed the NML are shown in red.

At La Perouse, the highest predicted noise levels for Phase 1 are predicted to exceed NMLs by 2-4 dBA (RES1-4) and 6 dBA (CUL1).

At Kurnell, RES1 and RES4 are the closest in proximity to the site establishment works with Phase 1 activities predicted to exceed the NMLs by 9 dBA (RES1) and 2 dBA (RES2).

The noise impacts from Phase 1 will be temporary and intermittent in duration, rather than a constant noise source. Applicable mitigation measures such as notification and verification noise monitoring will be implemented, refer to Section 9.



Table 7-2 Phase 1 Noise impacts at La Perouse

ID	Location	Period	NML	Phase 1			
				Security and Fencing (dBA)	Exceedance of NML (dBA)	Setting up site offices and access (dBA)	Exceedance of NML (dBA)
RES1	51-52 Endeavour Avenue	Standard Hours	53	49	-	55	+2
RES2	27 Goorawahl Avenue	Standard Hours	53	51	-	57	+4
RES3	3/1599 Anzac Parade	Standard Hours	53	49	-	55	+2
RES4	31 Endeavour Avenue	Standard Hours	53	46	-	55	+2
ARC1	Frenchmans Bay Reserve Playground	Standard Hours	65	51	-	52	-
ARC2	Congwong Trail	Standard Hours	65	40	-	45	-
PRC1	Frenchmans Beach	Standard Hours	60	43	-	52	-
CHC1	Gujaga MACS Childcare Centre	Standard Hours	55	38	-	46	-
COM1	The Boatshed	Standard Hours	70	53	-	62	-
CUL1	La Perouse Museum	Standard Hours	55	55	-	61	+6
CUL2	Macquarie Watchtower	Standard Hours	55	49	-	54	-
CMU1	La Perouse Local Aboriginal Land Council	Standard Hours	55	37	-	46	-

Table 7-3 Phase 1 Noise impacts at Kurnell

ID	Location	Period	NML	Phase 1			
				Security and Fencing (dBA)	Exceedance of NML (dBA)	Setting up site offices and access (dBA)	Exceedance of NML (dBA)
RES1	3/1 Captain Cook Drive	Standard Hours	53	63	+10	62	+9
RES2	Kamay Botany Bay National Park (Rangers House)	Standard Hours	53	44	-	44	-
RES3	10 Prince Charles Parade	Standard Hours	53	46	-	39	-
RES4	33 Captain Cook Drive	Standard Hours	53	58	+5	55	+2



EDU1	Kamay Botany Bay Environmental Education Centre	Standard Hours	55	41	-	39	-
PoW1	St John Fisher Catholic Church	Standard Hours	55	43	-	45	-
ACR1	Marion Park	Standard Hours	65	30	-	27	-
ACR2	Yena Walking Trail	Standard Hours	65	31	-	31	-
PRC1	Commemoration Flat	Standard Hours	60	41	-	41	-
CHC1	Kurnell Preschool Kindergarten	Standard Hours	55	34	-	32	-
COM1	Endeavour Coffee and Icecream	Standard Hours	70	62	-	61	-
IND1	Caltex Kurnell Terminal	Standard Hours	75	40	-	40	-

7.3 BIODIVERSITY

7.3.1 THREATENED ECOLOGICAL COMMUNITIES / VEGETATION COMMUNITIES

The biodiversity values of the construction ancillary facilities have been identified in Chapter 10 (marine biodiversity) and Chapter 11 (terrestrial biodiversity) of the EIS. As the construction of ancillary facilities is limited to landside activities, marine biodiversity is not expected to be impacted.

7.3.2 THREATENED SPECIES

7.3.2.1 THREATENED ECOLOGICAL COMMUNITIES (TECS)

Three Threatened Ecological Communities (TECs) listed in under the NSW BC Act have been identified within the study area at Kurnell. No TECs were recorded at La Perouse. The TECs at Kurnell included:

- Kurnell Dune Forest in the Sutherland Shire and City of Rockdale
- Littoral Rainforest in the New South Wales North Coast, Sydney Basin and South East Corner Bioregions
- Swamp Oak Floodplain Forest of the New South Wales North Coast, Sydney Basin and South East Corner Bioregion

The estimated area of impact on TECs for the project's construction ancillary facilities is outlined in Table 7-4. The area of impact is all located within the site establishment area.

7.3.2.2 THREATENED FLORA

Two threatened flora species were identified in the EIS for targeted surveys, including:

- Leafless Tongue Orchid
- Magenta Lilly Pilly.

The surveys did not identify any threatened flora within the project boundary. Magenta Lilly Pilly was identified next to the project boundary at Kurnell and as such there will be no expected impact to these threatened flora as outlined in Table 7-4.

7.3.2.3 THREATENED COMMUNITIES AND SPECIES

As outlined in Table 7-1 of the Updated Biodiversity Development Assessment Report (BDAR), the impacts to threatened communities and species is outlined in below in Table 7-4.



Table 7-4 Threatened Communities and Species impacts

Type		EPBC Status	NSW BC Status	Impact
Threatened Ecological Communities	1823 Coastal headland Cliff line scrub	-	-	Clearing of 0.009 ha
	661 Coastal sand littoral forest	-	Endangered	Clearing of 0.03 ha
	772 Coast foredune wattle scrub	-	-	Clearing of 0.024 ha
Threatened Fauna	Large-eared Pied Bat	Vulnerable	Vulnerable	Impacts to 0.07ha of potential foraging habitat
	Eastern Cave Bat	-	Vulnerable	Impacts to 0.02ha of potential foraging habitat
	Pied Oystercatcher	-	Endangered	Impacts to 0.024ha of potential foraging/breeding habitat
	Grey-headed Flying Fox	Vulnerable	Vulnerable	Impacts to 0.03ha of potential foraging habitat
	Green and Golden Bell Frog	Vulnerable	Endangered	Impacts to 0.03ha of potential Foraging/movement habitat
Threatened Flora	Leafless tongue-orchid	Vulnerable	Vulnerable	Impacts to 0.05ha of potential breeding habitat
	Magenta Lilly Pilly	Vulnerable	Endangered	Impacts to 0.05ha of potential breeding habitat

7.3.3 HOLLOW BEARING TREES

No hollow bearing trees will be impacted by the project.

7.4 SOIL, WATER AND CONTAMINATION

Key aspects of the project’s site establishment work that could result in adverse impacts to soils and water quality include:

- Site establishment
- Site access
- Material stockpiles

Potential for impacts on soil and water depend primarily on the nature, extent and magnitude of site establishment activities and their interaction with the natural environment. Potential impacts attributable to site establishment include:

- Contamination of soils, and surface and groundwater from accidental spills or oil leaks that could pollute receiving waterbodies
- Contamination of surface and groundwater from disturbance of unknown in-situ contaminated soils (such as asbestos, hydrocarbons or chemical impacted soils)

Relevant aspects and the potential for related impacts have been considered in a risk assessment in Section 8.



7.5 HERITAGE

7.5.1 ABORIGINAL CULTURAL HERITAGE

The Aboriginal cultural heritage values of the project have been identified in Chapter 7 of the EIS. During the development of the EIS a desktop study identified several Aboriginal heritage sites within and close to the project boundary. It was therefore determined that further investigation was required.

An archaeological survey was conducted in January 2020 in accordance with the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW and Stage 2 PACHCI. The study area was slightly larger than the project boundary as the design was still being refined at the time.

The survey identified a newly recorded shell midden site at La Perouse (La Perouse Midden 19-01). This site does not have an AHIMS ID yet but is directly above a rock shelter overlooking Botany Bay.

Two engravings at La Perouse (AHIMS ID 45-6-0648 and AHIMS ID 45-6-0649) were reidentified during the survey. They had been subject to heavy erosion, which has compromised their legibility. The other seven sites at La Perouse were unable to be re-identified due to erosion, the presence of a (redacted), and the rock shelters being backfilled since their initial recording.

An area of Low Potential PAD (an area where subsurface artefacts and/or cultural material are likely to occur) was also identified during this stage, and it was predicted that this area may contain buried engravings and midden material.

This survey confirmed the presence of the K PAD 1 at Kurnell (AHIMS ID 52-3-1366) and extended it to include the Foreshore Midden – Captain Cook’s Landing Place area (AHIMS ID 52-3-0219) as they were in close proximity. No Aboriginal objects were identified within the foreshore midden. However, there is the potential for subsurface deposits below the depth of previous investigations (about 400 millimetres) (Irish, 2007).

7.5.1.1 IMPACTS

There may be direct impacts to heritage value from the disturbance caused by the site establishment at La Perouse and Kurnell as follows.

Table 7-5 Direct impacts to Aboriginal Heritage as a result of Site Establishment Activities

Site Location	ID	Type	Site Establishment Activities Impact
La Perouse	Site 3 (AHIMS ID 45-6-0650)	Rock engraving	Site 3 is potentially partially within the site establishment area. Following the implementation of the proposed management measures, no impact to the sites is expected.
La Perouse	Site 4 (AHIMS ID 45-6-0651)	Rock engraving	Site 4 is potentially partially within the site establishment area. Following the implementation of the proposed management measures, no impact to the sites is expected.
La Perouse	Site 6 (AHIMS ID 45-6-0653)	Rock engraving	Site 6 is expected to have been buried in the area near the site establishment area and may therefore be impacted during site establishment. Following the implementation of the proposed management measure, no impact to the site is expected.
La Perouse	Low Potential PAD	May contain buried engravings and midden material	The refined Low Potential PAD area covers the site establishment area. No surface penetration works occur within this area during site establishment activities and as a result no impact to the site is expected.
Kurnell	KMT ISO 01 (AHIMS 52-3-2080)	Silcrete proximal flake	KMT ISO 01 is within the site establishment area. This site are isolated artefacts of low archaeological and cultural heritage significance.



		fragment artefact	Minor surface penetration works will occur within this area during site establishment activities and has a potential to impact the site.
Kurnell	KMT ISO 02 (AHIMS 52-3-2081)	One complete chert flake artefact.	KMT ISO 02 is within the site establishment area. This site are isolated artefacts of low archaeological and cultural heritage significance. Minor surface penetration works will occur within this area during site establishment activities and has a potential to impact the site.
Kurnell	Foreshore Midden – Captain Cook’s Landing Place (AHIMS 52-3-0219)	Shell and artefact site	The Foreshore Midden – Captain Cook’s Landing Place (AHIMS ID 52-3-0219) within the site establishment area. Minor surface penetration works will occur within this area during site establishment activities and has a potential to impact the site.

7.5.2 NON-ABORIGINAL HERITAGE

The Non-Aboriginal heritage values of the project have been identified in Chapter 8 of the EIS. During the development of the EIS a desktop review was conducted within the study area and consisted of historical records, past investigations, current ground conditions, and the field surveys. Several Non-Aboriginal heritage items were identified within the study area, their potential impact as a result of site establishment activities are summarised in table 7-6.

7.5.2.1 IMPACTS

There may be direct impacts to heritage value from the disturbance caused by the site establishment at La Perouse and Kurnell as follows.

Table 7-6 Direct impacts to Non-Aboriginal Heritage as a result of Site Establishment Activities

Site Location	Heritage Item	Site Establishment Activities Impact
Kurnell	Kurnell Peninsula Headland (Kurnell) (NHL ID 105812)	Kurnell Peninsula Headland (Kurnell) (NHL ID 105812) is within the site establishment area. Subsurface penetration from site establishment activities will have a minor impact to this heritage site.
Kurnell	Kamay Botany Bay National Park (North and South) and Towra Point Reserve (Kurnell and La Perouse) (SHR 01918)	This site (SHR 01918) is within the site establishment area. Subsurface penetration from site establishment activities will have a minor impact to this heritage site.
Kurnell	Kurnell Historic Site (in Kamay Botany Bay National Park, Kurnell) (SLEP 2504)	Kurnell Historic Site (in Kamay Botany Bay National Park, Kurnell) (SLEP 2504) is within the site establishment area. Subsurface penetration from site establishment activities will have a minor impact to this heritage site.
Kurnell	Coarse stone sea wall	Coarse stone sea wall is within the site establishment area, however no impact to the item is expected due to site establishment work.
Kurnell	Monument Track	Monument Track is within the site establishment area and will be impacted during site establishment through the construction of an access track that will be built on top of the existing monument track.
Kurnell	African Olive tree	The African Olive tree is within the site establishment area and will be removed as part of Site Establishment Activities. This heritage item is of little significance and has been assessed in the EIS for removal.
Kurnell	Captain Cook watering well	The Captain Cook watering well is within the site establishment area and will be delineated and protected during site establishment



		activities before being temporarily relocated during construction to avoid permanent direct impacts.
Kurnell	Landing Place Memorial	The Landing Place Memorial plaque well is within the site establishment area and will be delineated and protected during site establishment activities before being temporarily relocated during construction to avoid permanent direct impacts.

7.5.3 UNDERWATER HERITAGE

No marine-side activities are proposed for the site establishment work and as a result no impacts to underwater heritage will occur.

7.6 AIR QUALITY

There is potential for site establishment works to result in minimal air quality impacts due to:

- Dust as a result of vegetation clearing
- Dust as a result of importation and placement of aggregates for hardstand
- Dust due to the storage of equipment
- Dust due to storage of materials
- Dust due to vehicle access on hardstand
- Emissions due to the use of plant, machinery and vehicles

The EIS concluded that impacts on air quality will be minor in nature.

7.7 MARINE WORKS MANAGEMENT

No marine-side activities are proposed for the site establishment work and as a result no impacts as a result of marine works will occur.

7.8 WASTE & RESOURCES

Waste generated during site establishment works will primarily be from site preparation including clearing of vegetation and installation of site crib sheds. The following waste streams have been identified by McConnell Dowell for the site establishment works:

- Vegetation waste from the removal of terrestrial vegetation
- General waste including timber formwork, PVC, and packaging material (crates, pallets, cartons, plastics and wrapping material)
- Surplus material including fencing, aggregate, formwork, and sandbags
- General waste from site offices including putrescibles, paper, cardboard, e-waste plastics, glass, site litter, cigarette butts, printer cartridges and sewage waste
- Clean up waste in the event of an accidental spill of fuel or chemicals.

The potential waste types to be generated for the site establishment works are provided in Table 7-7.



Table 7-7 Potential waste streams and classifications

Site Establishment Activity	Material	Potential Waste Classification
Site preparation	Road base, sub-base	General Solid Waste Non-Putrescible (pre-classified)
	Timber formwork	General Solid Waste Non-Putrescible (pre-classified)
	PVC (Pipes)	General Solid Waste Non-Putrescible (pre-classified)
Site Operation	Sewage	Liquid Waste
	General Waste	General Solid Waste Non-Putrescible (pre-classified)



8 SITE ESTABLISHMENT RISK ASSESSMENT

8.1 MCCONNELL DOWELL RISK MANAGEMENT

McConnell Dowell manages environmental risks and opportunities through the HSE Risk Management (HSEQ-HS-PRO006-GEN-ALL) process. Significant environmental risks are also included within the Tender - Project Risk & Opportunities Register (CMC-RSK-TEM001-GEN-ALL).

This process complies with the Standard AS/NZS ISO 31000:2009 Risk Management Principles and Guidelines. During Project execution, the principal objectives of risk management are to develop and monitor the implementation and effectiveness of risk treatments and to identify and evaluate changes in the risk profile of the Project.

8.1.1 ENVIRONMENTAL RISK ASSESSMENT WORKSHOP

An environmental risk assessment workshop was held prior to site establishment and reviewed all activities including site establishment. The environmental risk assessment workshop included representatives from Transport for NSW, McConnell Dowell and suitable environmental representatives.

Site establishment activities were assessed to identify the relevant steps in the activity and the associated environmental hazards, initial risk levels, mitigation measures and to avoid, manage and/or minimise the risks and residual risks. Each of these items will be documented in an environmental risk register and added to Appendix D as required. Where residual risk is assessed as high an Environmental Work Method Statement will be developed for that activity.

The risk matrix identified in Table 8-1 and Table 8-2 has been used to undertake the risk assessment located in Appendix D.

Table 8-1 Likelihood Ranking

Ranking of Likelihood		
Rank	Likelihood Descriptor	Description
1	Rare	The event may occur only in exceptional circumstances
2	Unlikely	The event could occur at some time
3	Possible	The event should occur at some time
4	Likely	The event will probably occur in most circumstances
5	Almost Certain	The event is expected to occur in most circumstances

Table 8-2 Risk Assessment Matrix

Level of Risk (Risk Rating)					
Likelihood	Consequence				
	A – Low	B – Moderate	C – Serious	D – Major	E – Critical
5 – Almost Certain	Moderate 5-A	High 5-B	Very High 5-C	Extreme 5-D	Extreme 5-E
4 – Likely	Low 4-A	Moderate 4-B	High 4-C	Very High 4-D	Extreme 4-E



3 – Possible	Low 3-A	Moderate 3-B	High 3-C	High 3-D	Very High 3-E
2 – Unlikely	Low 2-A	Low 2-B	Moderate 2-C	High 2-D	High 2-E
1 – Rare	Low 1-A	Low 1-B	Low 1-C	Moderate 1-D	High 1-E

8.1.2 ONGOING RISK ANALYSIS

During Site Establishment, the McConnell Dowell Environment and Sustainability Lead will review and, if necessary, update of the risk matrix on an ongoing process, including, as a minimum, when:

- A new risk has been identified
- There is a change in work systems, materials, equipment, practices or procedures on site
- There is a reportable incident
- New information about an environmental risk becomes available or where personnel raise concerns about the proposed management of an environmental risk.

Where new risks are identified, these will be included in the Environmental Risk Assessment, assessed and control measures put in place to eliminate or minimise the level of risk. Monitoring and review of the effectiveness of control measures will be carried out during weekly environmental inspections and may include consultation with site personnel involved in managing the identified risks.

Following completion of site establishment works, the environmental risks will be managed under the projects Construction Environmental Management Plan.



9 ENVIRONMENTAL CONTROL MEASURES

9.1 ENVIRONMENTAL WORK METHOD STATEMENTS (EWMS)

An Environmental work method statements (EWMS) are prepared to manage and control all high-risk activities and others that have the potential to negatively impact on the environment. EWMS will be prepared prior to the commencement of relevant activities required for site establishment work and will incorporate relevant mitigation measures and controls, including those from relevant management sub plans. They also identify key procedures to be used concurrently with the EWMS. EWMS are:

- specifically designed to communicate requirements, actions, processes and controls to personnel using plans, diagrams and simply written instructions.
- prepared prior to and during site establishment works in consultation with relevant members from the Project team, and concurrence provided by the TfNSW Environmental Manager.

EWMS will be prepared for high-risk activities including those outlined in the EIS and those identified through the Environmental Risk Assessment Workshop. Under the SEMP EWMS will be prepared for the following activities:

- Site Establishment
- Refuelling

The EWMS will include at least the following elements:

- Description of the work activity, including any plant and equipment to be used
- Outline of the sequence of tasks for the activity, including interfaces with other works onsite
- Identification of any environmental and/or socially sensitive areas, sites or places
- Identification of potential environmental risks/impacts due to the work activity
- Mitigation measures to reduce the identified environmental risk, including assigned responsibilities to site management personnel
- Process for assessing the performance of the implemented mitigation measures.

All personnel and sub-contractors undertaking a task governed by an EWMS must participate in training on the EWMS and acknowledge that they have read and understood their obligations by signing an attendance record prior to commencing work.

Regular monitoring, inspections and auditing of compliance with the EWMS will be undertaken by Project management and environmental personnel to ensure that all controls are being followed and that any non-conformances are recorded, and corrective actions implemented.

A register of EWMS will be maintained by McConnell Dowell.

9.2 SITE ENVIRONMENTAL PLAN (SEP)

Site Environmental Plans (SEPs) are spatial representations, in the form of an aerial photographs developed for a specific footprint of the Project to illustrate the key site features relating to environmental management.

The SEPs incorporate key features of the project and identify any environmental and/or socially sensitive areas, sites or places. At a minimum, the SEPs are to include:

- The wharf design and alignment
- Project boundary and compounds
- Aboriginal, non-Aboriginal and underwater heritage features
- Endangered terrestrial vegetation communities
- Endangered seagrass meadows



- Key fish habitat
- Recorded threatened fauna sightings
- Coastal wetlands
- No-go areas
- Noise sensitive receivers
- Areas of potential soil contamination including asbestos.

The SEPs are developed prior to site establishment works to meet the requirement of a ‘*Sensitive Area Plan*’ (SAP) and will be updated as required.

The initial draft Site Environmental Plan for Site Establishment is included in Appendix E.

9.3 PROGRESSIVE EROSION AND SEDIMENT CONTROL PLANS

Progressive Erosion and Sediment Control Plans (PESCPs) will be developed prior to site establishment and updated throughout to prescribe and depict where controls should be located on site to provide adequate mitigation against erosion and sediment loss from the Project site during works.

The PESCPs will be prepared in accordance with:

- Volume 1 of Managing Urban Stormwater: Soils and Construction (Blue Book) (Landcom 2004)
- Managing Urban Stormwater: Soils and Construction – Installation of Services, Volume 2A (OEH 2008)
- Managing Urban Stormwater: Soils and Construction – Main Road Construction, Volume 2D (OEH 2008).
- Advice from a suitably qualified or Certified Professional in Erosion and Sediment Control (as required).

9.4 PRE-CONSTRUCTION LAND CONDITION ASSESSMENT

The purpose of the pre-construction land condition assessment is to identify any existing waste or stored materials on the land prior to the area being occupied for construction, including site establishment.

The pre-construction land condition assessment report will be completed by a suitable qualified consultant on behalf of McConnell Dowell for each area of land and submitted to TfNSW for approval. The report will be in the format detailed in the TfNSW Environmental Procedure “Management of Wastes on Roads and Maritime Services Land”. (A copy of this procedure is available at:

<http://www.rms.nsw.gov.au/documents/about/environment/environment-waste-on-rms-land-procedure.pdf>)

9.5 CHANGES TO/AND OR RELOCATION OF ANCILLARY FACILITIES

The Ancillary Facilities proposed in this SEMP have been identified in the EIS, however in the event that additional ancillary facilities are required and that have **not** been identified by description and location in the documents identified in the EIS, can only be established and used in each case if:

- They are located within or immediately adjacent to the project boundary
- They are not located next to sensitive land user(s) (including where an access road is between the facility and the receiver), unless the landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location
- They have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval



- The establishment and use of the facility can be carried out and managed within the outcomes set out in the terms of this approval, including in relation to environmental, social and economic impacts.



9.6 MANAGEMENT MEASURES

Performance outcomes, commitments and management measures were identified in the Environmental Assessment Documentation, the MCoAs, REMMs and relevant TfNSW documents. All specific practicable measures and requirements to avoid and/or minimise impacts during site establishment works are outlined in Table 9-1.

Table 9-1 Site Establishment management and mitigation measures

ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
General					
SE1	<p>All employees, contractors and subcontractors are to receive a site induction prior to commencing work on the project. The site induction will include:</p> <ul style="list-style-type: none"> • McConnell Dowell's Green Rules (environmental management principles) • Location of noise sensitive areas • Complaints reporting and recording • Spill prevention and response • TfNSW Unexpected Heritage Finds and Human Remains Procedure • How to implement air quality management measures • Unexpected Finds Procedure (Contamination and Heritage Finds) 	Induction records	Prior to personnel commencing work onsite	Project Manager	Best Practice
SE2	<p>Environmental Work Method Statements (EWMS) will be prepared and implemented prior to commencing high risk activities including but not limited to:</p> <ul style="list-style-type: none"> • Site Establishment • Refuelling • Terrestrial Vegetation Disturbance 	EWMS	Prior to Site Establishment	Project Manager ESL	SEMP Section 9.1



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
SE3	In the event of an environmental incident or emergency, the environmental incident and emergency response procedures will be implemented. These procedures are to include the initial actions required to be undertaken to avoid or minimise environmental harm and notify relevant project personnel.	Site Inspection Report	Site Establishment	Site Supervisor ESL	Best Practice
Boundary Screening					
SE4	Boundary screening will be erected around all ancillary facilities that are adjacent to sensitive receivers during site establishment.	SEMP Site inspections records	Site establishment	Construction Manager Site engineers	MCoA A23
SE5	Boundary screening will include: <ul style="list-style-type: none"> the SSI name, application number, telephone number, postal address and email address at each construction ancillary facility. Indigenous artwork wherever visible 	SEMP Site inspections records	Site establishment	Construction Manager Site engineers	MCoA A23 MCoA A24
Traffic and Access					
SE6	Worker parking along Anzac Parade at La Perouse must be avoided during peak periods (weekends). Temporary parking will be available for construction vehicles at La Perouse and Kurnell site compounds.	Site Inspection Reports	Site establishment	Construction Manager Site engineers	REMM T3 MCoA E78
SE7	Delivery vehicles must not park on public roads, instead they must park within the project site boundary.	Site Inspection Reports	Site establishment	Construction Manager Site engineers	REMM T1
SE8	Pedestrian movements where they interact with the site establishment activities or boundaries must be managed and controlled by an authorised and qualified traffic controller.	TCPs	Site establishment	Construction Manager Site engineers	Transport for NSW Traffic Control at Work Sites Manual
SE9	Pedestrian warning signs and safety signs/devices must be used near entrances and exists to the site. These are to be provided in accordance with WorkCover and any applicable legislative requirements.	TCPs	Site establishment	Construction Manager Site engineers	Transport for NSW Traffic Control at Work Sites Manual



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
SE10	Emergency vehicle access must be maintained during site establishment.	Site Inspection Reports	Site establishment	Construction Manager Site engineers	REMM T6
SE11	Provide delivery instructions and access routes to suppliers along with purchase orders or provided separately prior to dispatch of materials for delivery.	TCPs	Site establishment	Construction Manager Site engineers	REMM T1
SE12	Appropriate vehicle speed limits must be established and enforced. These would be reviewed and adjusted depending on weather conditions or safety requirements.	TCPs	Site establishment	Construction Manager Site engineers	Transport for NSW Traffic Control at Work Sites Manual
SE13	Before any local road is used by a heavy vehicle for the purposes of the SSI, a Road Dilapidation Report must be prepared for the road. A copy of the Road Dilapidation Report must be provided to the relevant council within three weeks of completion of the survey and no later than one month prior to the road being used by heavy vehicles associated with the SSI.	Road Dilapidation Report	At least 2 weeks before the road is used by heavy vehicles associated with the project	Traffic Manager	MCoA E75
Noise and Vibration					
SE14	Minimise community noise disturbance, including avoiding: <ul style="list-style-type: none"> Swearing or unnecessary shouting or loud stereos / radios Dropping of materials from height, throwing of metal items and slamming of doors <ul style="list-style-type: none"> Compression braking where possible. 	Induction Toolbox talks Site inspection records	Site establishment works	Construction Manager Site Supervisors ESL All staff	Best practice
SE15	The standard hours of site establishment work for the Project are: <ul style="list-style-type: none"> Monday to Friday 7 am to 6 pm; and Saturday 8 am to 1 pm. There would be no site establishment work on Sundays or public holidays.	Site Inspection Records Site Program	Site establishment works	All staff	MCoA E42



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
SE16	Verification noise monitoring will be carried out at the start of each activity to confirm that actual noise levels are consistent with the noise impact predictions.	Monitoring reports	Site establishment works	ESL (or delegate)	MCoA E45
SE17	Any noise or vibration affected sensitive receivers will be notified at least five days before starting work. The notification will include details of: <ul style="list-style-type: none"> • Work periods and working hours • Contact information for project management staff • Complaint and incident reporting • How to obtain further information. 	Community notifications	Prior to Site establishment works	ESL Community Advisor	MCoA E45 REMM SN3
SE18	The offset distance between noisy plant and adjacent sensitive receivers is to be maximised.	Site Inspection Report	Site establishment works	All staff	REMM SN1
SE19	Noise-emitting plant to be directed away from sensitive receivers.	Site Inspection Report	Site establishment works	All staff	REMM SN1
SE20	Vehicles should avoid queuing or idling outside residential properties.	Site Inspection Report	Site establishment works	All staff	REMM SN1
SE21	Plan traffic flow, parking and loading or unloading areas to minimise reversing movements within the Site.	Traffic Control Plan (TCP)	Site establishment works	All staff	REMM SN1
SE22	Reduce throttle setting and turn off equipment when not being used	Site Inspection Report	Site establishment works	All staff	REMM SN1
SE23	All plant and equipment used on Site must be maintained in a proper and efficient condition.	Site Inspection Report Plant Checklist	Site establishment works	All staff	REMM SN1



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
SE24	If rental equipment is to be used, the noise levels of plant and equipment items are to be considered in rental decisions.	Site Inspection Report	Site establishment works	All staff	REMM SN1
SE25	A pre-construction building condition assessment of Aboriginal and non-Aboriginal heritage items within 70 metres of the project boundary will be conducted by a suitably qualified person prior to site establishment.	Building condition surveys	Site establishment works	ESL	REMM SN2
Light Spill					
SE26	Lighting equipment at site compounds for security purposes will be installed to minimised disturbance to local residents including: <ul style="list-style-type: none"> Using deflection screens or fixtures on lights if required Only lighting the areas required to be lit Lights should be kept low in intensity and close to the ground where possible Directing lighting away from vegetated areas where practicable and selecting lights with little or no blue in them (such as orange-, red- or amber-coloured lights) which reduces skyglow and to which wildlife are generally less sensitive. 	Site Inspection Report	Site establishment works	ESR	MCoA E90 MCoA E92
Biodiversity					
SE27	Prepare and implement Site Environmental Plan that identify sensitive habitats, protection areas, no anchoring zones, and exclusion zones to protect seagrass and threatened species.	Site Environmental Plan	Prior to Site Establishment	ESL	REMM MB2 REMM MB3 REMM B3
SE28	Develop and implement an unexpected threatened species finds procedure as specified in the Biodiversity Guidelines - Protecting and managing biodiversity on RTA Projects (NSW Roads and Traffic Authority, 2011a)	EWMS - Site Establishment	Site Establishment	ESL	REMM B3
SE29	Develop and implement a fauna handling procedure as specified in the Biodiversity Guidelines - Protecting and managing biodiversity on RTA Projects (NSW Roads and Traffic Authority, 2011a)	EWMS - Site Establishment	Site Establishment	ESL	REMM B3



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
SE30	Tree protection measures must be implemented to ensure the protection of all trees planned to be retained on site. This includes measures such as restricting activities in the tree protection zones, fencing and signage requirements.	Site Environmental Plan	Prior to Site Establishment	ESL	REMM B4
SE31	Develop and implement a weed and pathogen control procedure.	EWMS - Site Establishment	Prior to Site Establishment	ESL	REMM B2
SE32	Develop and implement an Environmental Work Method Statement for Terrestrial Vegetation Disturbance prior to the removal of terrestrial vegetation.	EWMS – Terrestrial Vegetation Disturbance	Prior to Site Establishment	ESL	MCoA E1
SE33	Use chemical and mechanical weed control methods such as slashing or mowing, as well as a range of herbicides to avoid the development of herbicide resistance (e.g., glyphosate resistance).	Site Inspection Report	Site Establishment	ESL	REMM B2
SE34	A consulting arborist is to carry out an assessment of all trees within the project boundary that are proposed for retention in accordance with Australian Standard 4970: Protection of Trees on Development Sites. The arborist is to provide a report with recommendations on the viable retention of all native trees within the project boundary of the mapped PCTs and include recommendations for amending design or using alternate construction methods to reduce any impacts on retained trees.	Arborist Report	Prior to Site Establishment	ESL	REMM B4
Soil, Water & Contamination					
SE35	Prior to any work, progressive erosion and sediment control plans (PESCP) will be prepared and controls implemented and maintained in accordance with the Blue Book.	PESCP	Prior to Site Establishment	ESL	MCoA E60 Blue Book (Landcom 2004)
SE36	Review the effectiveness of the PESCP as required and immediately after each rainfall event > 10mm, update the PESCP to address any identified deficiencies in the adequacy of the existing control measures and review the appropriateness of the design parameters used for Blue Book calculations.	PESCP Environment & Sustainability	Site Establishment	ESL	Blue Book (Landcom 2004)



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
	Keep the PESCP updated to reflect any changes in the existing controls.	Inspection Checklist			
SE37	Site compounds, access roads, stockpile sites and temporary work areas must be located and constructed to minimise erosion	PESCP Site Compound Plan	Prior to Site Establishment	ESL	Blue Book (Landcom 2004)
SE38	All runoff from disturbed areas must be directed to appropriate treatment devices deemed to have adequate sediment trapping/filtering capabilities.	PESCP Site Inspection Report	Site Establishment	Site Supervisor ESL	Blue Book (Landcom 2004)
SE39	All erosion and sediment control measures must be maintained in good working order at all times throughout the site establishment works.	PESCP Site Inspection Report	Site Establishment	Site Supervisor ESL	Blue Book (Landcom 2004)
SE40	An unexpected finds contamination finds procedure is be developed and implemented during site establishment. The plan is to identify or set out the actions to be taken when potential contaminated soil/material is encountered during site establishment work.	EWMS - Site Establishment	Site Establishment	ESL	Best Practice
Stockpile Management					
SE41	Locate stockpiled material outside of the tree protection zone of trees or native vegetation identified for retention as part of the PESCP. Delineate the tree protection zone in accordance with AS 4970.	Site Inspection Report	Site Establishment	ESL Site Supervisor	Blue Book (Landcom 2004)
SE42	Locate stockpiles at least 10 m from likely areas of concentrated water flows and at least 20 m from Botany Bay.	Site Inspection Report	Site Establishment	ESL Site Supervisor	Blue Book (Landcom 2004)
SE43	Stockpiled material heights are to no be greater than 2 m, unless otherwise approved by the Principal, and slopes to no steeper than 2:1.	Site Inspection Report	Site Establishment	ESL Site Supervisor	Blue Book (Landcom 2004)
SE44	Stockpiles that will be in place for more than 20 days as well as any stockpiles that are susceptible to wind or water erosion, are to be covered, or otherwise protect from erosion within 10 days of forming each stockpile or immediately prior to rainfall events. .	Site Inspection Report	Site Establishment	ESL Site Supervisor	Blue Book (Landcom 2004)



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
Hazardous Material Management					
SE45	Refuelling will occur in accordance with the EWMS for Refuelling, and always be attended. Machinery will be checked daily to ensure that there are no oil, fuel, or other liquid leaks.	EWMS - Refuelling	Site Establishment	Site Supervisor ESL	REMM SW5
SE46	Storage of fuels and chemicals at least 50m from Botany Bay or drainage lines and on an impervious surface flatter than a 10% grade.	Site Inspection Report	Site Establishment	Site Supervisor ESL	Best Practice
SE47	Storage of dangerous goods and hazardous materials is to occur in accordance with suppliers. instruction and relevant Australian Standards and may include bulk storage tanks, chemical storage cabinets / containers or impervious bunds.	Site Inspection Report	Site Establishment	Site Supervisor ESL	REMM SW3
SE48	Emergency spill kits for the management of wet and dry chemical spills must be available.	Site Inspection Report	Site Establishment	Site Supervisor ESL	REMM SW3
SE49	Safety Data Sheets (SDS) are to be obtained for dangerous goods and hazardous substances stored onsite prior to their arrival. A SDS register is to be maintained on Site at all times.	Site Inspection Report	Site Establishment	Site Supervisor ESL	REMM SW5
Air Quality					
SE50	Undertake dust suppression for activities identified as having potential to cause dust within or adjacent to the Site. This includes but is not limited to regularly watering all exposed surfaces, including haul roads, using water sprays or sprinkler systems.	Site Inspection Report	Site Establishment	ESL Site Supervisor	REMM A1
SE51	Maintain all vehicles and plant in accordance with manufacturer specifications.	Plant Checklist	Site Establishment	Site Supervisor	REMM A1
SE52	Ensure that all vehicles transporting soils, rock or other materials are covered at all times during vehicle movement activities.	Site Inspection Report	Site Establishment	Site Supervisor	REMM SW3 REMM A1
SE53	Ensure vehicles and mobile plant use designated haulage and access routes which are restricted to appropriate traffic speeds suitable to the route type and weather conditions.	Site Inspection Report	Site Establishment	ESL Site Supervisor	REMM A1



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
Heritage					
SE54	Heritage protection zones and protection requirements for heritage items within and in the vicinity of the project boundary must be established prior to site establishment. Exclusion zones to be established will be determined in consultation with a suitably qualified heritage specialist and may include Para webbing, signage, temporary fencing and/or inductions.	Site Inspection Report Sensitive Area Plans	Prior to and during Site Establishment	ESL	REMM NAH3 REMM AH7
SE55	A visual inspection by a suitably qualified heritage specialist in accordance with the Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (Department of Environment, Climate Change and Water NSW, 2010) must be undertaken for the potential rock engravings (Site 3, La Perouse [AHIMS ID 45-6-0650] and Site 4, La Perouse [AHIMS ID 45-6-0651]) before commencing site establishment works.	Inspection Report from Heritage Consultant	Prior to Site Establishment	ESL	REMM AH6 MCoA E27
SE56	Exclusion zones must be established for all registered AHIMS rock engraving sites within the project boundary or directly adjacent, and these covered with geotextile fabric (or similar) before commencing site establishment works as required.	Site Inspection Report Sensitive Area Plans	Prior to Site Establishment	ESL	MCoA E29 REMM AH7
SE57	Archaeological work method statements will be prepared prior to site establishment to prevent impact and preserve the integrity the rock engraving at La Perouse (AHIMS ID 45-6-0653).	AWMS	Prior to Site Establishment	ESL	REMM AH8
SE58	A Photographic Archival Recording Program must be undertaken in accordance with the <i>How to Prepare Archival Recording of Heritage Items</i> (NSW Heritage Office 1998) and <i>Photographic Recording of Heritage Items Using Film or Digital Capture</i> (NSW Heritage Office 2006), in consultation with Heritage NSW. Photographic archival recording must be carried out for heritage items that are directly impacted within the project boundary and must record the setting and views of the heritage items within the study area that would be subject to minor or greater visual impacts, based on Table 5-2. The impacted elements include but are not limited to:	Photographic Archival Report	Prior to Site Establishment	ESL	REMM NAH6



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
	<ul style="list-style-type: none"> The former sea wall at Kurnell; The former wharf approach road at La Perouse; The archaeological potential areas at La Perouse; and Nearby heritage items subject to minor visual impacts, including: Kurnell Peninsula Headland; Kamay Botany Bay National Park (North and South) and Towra Point Reserve; Kurnell Historic Site (in Kamay Botany Bay National Park); Kurnell monuments (in Kamay Botany Bay National Park); and Captain Cook monument.				
SE59	Supervision by an appropriately qualified and experienced archaeologist is required for any excavation near AHIMS Site #52-3-0219 (Foreshore Midden — Captain Cook's Landing Place) where it exceeds 400mm in depth. If Aboriginal cultural heritage is identified during the proposed works, further archaeological investigations may be required. This must be determined in consultation with Heritage NSW, RAPs, and La Perouse LALC	Inspection Report from Heritage Consultant	Prior to Site Establishment	ESL	MCoA E31 REMM AH9
Waste & Energy					
SE60	All staff and subcontractors will undergo a site induction and ongoing toolbox talks that will detail waste minimisation and reuse management measures, including the requirements of waste management hierarchy.	Induction	Prior to and during Site Establishment	ESL	REMM W1 MCoA E111
SE61	A Waste Management Register will be maintained, to record the type, amount and location of waste reused, recycled, stockpiled, and disposed of. The Waste Management Register must include the following details: <ul style="list-style-type: none"> type of waste and its classification (according to the Protection of the Environment Operations Act 1997 (POEO Act) and Waste Classification Guidelines) quantities of waste, measured in tonnes how and where the waste was reused, recycled, stockpiled or disposed of 	Waste Register	During Site Establishment	ESL	Best Practice



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
	<ul style="list-style-type: none"> date when the waste was reused, recycled, stockpiled or disposed of name and waste transport licence (if applicable) of the transporter used. 				
SE62	Waste storage area will be delineated to ensure the separation of waste is managed on-site.	Site Environmental Plan	During Site Establishment	ESL	REMM W1
SE63	Waste will be separated and bins will be provided this may include: <ul style="list-style-type: none"> general waste recycling co-mingle timber concrete. 	Waste Register	During Site Establishment	ESL	REMM W1
SE64	On-site effluent will either be discharged to the local sewage system or temporarily stored in septic or portable facilities. These facilities will be of sufficient capacity and located away from environmentally sensitive areas such as waterways. The effluent will be regularly collected and disposed of to an appropriately licenced facility. Pit toilets are not permitted.	Waste Register	During Site Establishment	ESL	REMM W4
SE65	Waste generated during site establishment be dealt with in accordance with the following priorities: <ul style="list-style-type: none"> waste generation must be avoided and where avoidance is not reasonably practicable, waste generation must be reduced; where avoiding or reducing waste is not possible, waste must be re-used, recycled, or recovered; and where re-using, recycling, or recovering waste is not possible, waste must be treated or disposed of. 	Waste Register	During Site Establishment	ESL	MCoA E111



ID	Management Measure	Evidence of Implementation	When to Implement	Responsibility for Implementation	Reference or Source
SE66	If required, imported materials must be done in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014.	Waste Register	During Site Establishment	ESL	MCoA E112 MCoA E113
SE67	Any waste removed from site will be sent 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.	Waste Register	During Site Establishment	ESL	MCoA E113
SE68	If required, any spoil generated or stockpiled onsite is to be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal docket retained and managed in the projects Waste Register	Waste Classification Reports Waste Register	During Site Establishment	ESL	MCoA E114
SE69	Water efficient appliances and fitting will be installed at the ancillary facility offices and cribs.	Site inspection report	During Site Establishment	ESL	REMM GG2
SE70	Energy efficient appliances and lighting will be installed at the ancillary facility offices and cribs. These should have a minimum four-star energy rating.	Site inspection report	During Site Establishment	ESL	REMM GG2
SE71	Water tanks will be installed at the ancillary facility to capture rainwater for reuse on Site. This is to minimise potable water usage.	Site inspection report	During Site Establishment	ESL	REMM GG2 Transport for NSW Sustainability Strategy
SE72	Where reasonable and feasible the ancillary facilities will be connected to mains power.	Site inspection report	During Site Establishment	ESL	REMM GG2



10 ASSESSMENT AND APPROVAL PROCESS

The Ministers Conditions of Approval includes requirements for site establishment activities. The use and prior assessment of the site under the EIS will determine the approval pathway required for the ancillary facility. The assessment and approval process outlined in this section will be followed to gain approval by either the Environmental Representative (ER) or Planning Secretary (as required).

10.1 MINOR ANCILLARY FACILITIES

Lunch sheds, office sheds, portable toilet facilities, and the like, are defined as minor ancillary facilities and can be established and used where they have been assessed in EIS or satisfy the following criteria:

- are located within or immediately adjacent to the project boundary; and
- have been assessed by the ER to have:
 - minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009) (ICNG), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts;
 - minimal environmental impact with respect to waste management and flooding; and
 - no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval.

Minor construction ancillary facilities assessed in the EIS do not require approval from the ER.

10.2 CONSTRUCTION ANCILLARY FACILITIES ASSESSED IN THE EIS

The Construction ancillary facilities assessed in the EIS and use of these facilities in accordance with the approved usage, boundary layout and all applicable safeguards do not require further assessment. The use of the construction ancillary facilities outside of the standard construction hours are subject to an Out of Hours Work Approval.

The proposed Construction Ancillary Facilities outlined in this SEMP and Attachment C have been assessed in the EIS and do not need further assessment.

10.3 CONSTRUCTION ANCILLARY FACILITIES NOT ASSESSED IN THE EIS

Although not expected additional construction ancillary facilities that are not identified by description and location in EIS can be established and used in each case if:

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



In the event that additional construction ancillary facilities (not assessed in the EIS) are required, the SEMP (or CEMP if during construction) will be updated accordingly.



11 COMPLIANCE MANAGEMENT

11.1 ROLES AND RESPONSIBILITIES

Protection of the environment is the responsibility of all individuals and organisations involved with the Project. All personnel will be made aware of environmental issues associated with the Project and their responsibilities through training and awareness methods detailed in Section 11.2.

The key environmental management roles and responsibilities site establishment works are described below.

Table 11-1 Roles and Responsibilities

Role	Responsibilities
Construction Project Manager	<p>Promote at all times the company's policies, procedures and standards relating to environmental management and ensure that they are complied with.</p> <p>Ensure sufficient resources are available to achieve the policy, objectives and targets and that those resources have sufficient skills to conduct the roles competently.</p> <p>Report performance on a regular basis to internal and external stakeholders.</p> <p>Report significant incidents internally and externally as required by law and Contract Conditions.</p> <p>Overall environmental performance of the Project.</p> <p>Ensure the Project achieves legislative compliance.</p> <p>Provide leadership in the development of the SEMP and authorise its use.</p> <p>Nominate key personnel, assigning environmental responsibilities and allocating sufficient resources to achieve implementation of this SEMP.</p> <p>Ensure all personnel are familiar with and implement all relevant environmental controls as required.</p> <p>Monitor environmental performance to ensure compliance and continued improvement.</p> <p>Participate in the review of the Project environmental management system and this SEMP.</p> <p>Encourage all personnel to maintain acceptable environmental management work practices and foster awareness of environmental matters.</p> <p>Encourage the reporting of incidents, events and other concerns and ensure appropriate feedback on proposed corrective actions.</p>
Construction Environment & Sustainability Lead	<p>Functional and technical leader for the Project's environmental obligations.</p> <p>Principal contact for internal and external communication in relation to environmental matters.</p> <p>Oversee all environmental management aspects of the Project.</p> <p>Authority to stop a particular task or activity in circumstances where environmental controls or mitigation measures have not been implemented, have been implemented incorrectly / inadequately, are ineffective or where activities may otherwise be considered to lead to environmental harm. In such circumstances, prescribe corrective action that will be implemented before work recommences.</p> <p>Develop, review and ensure this document (and associated plans) is correctly implemented.</p> <p>Ensure measures are put in place to manage and mitigate environmental risks and issues as identified.</p> <p>Ensure that environmental plans, procedures and work instructions as applicable are prepared, reviewed and approved prior to commencement of work.</p> <p>Ensure all significant environmental issues are reflected in the significant environmental aspects identified for the Project.</p> <p>Report significant incidents internally and externally as required by law, the Project Conditions.</p>



Role	Responsibilities
	<p>Ensure that all key environmental aspects and associated impacts are incorporated into the SEMP, and that suitable control measures are proposed to minimise the Project's environmental impact.</p> <p>Ensure that all relevant environmental permits are obtained for the Project.</p> <p>Ensure all staff and contractors engaged to work on the Project are appropriately inducted and trained in environmental issues and controls relevant to the Project.</p> <p>Ensure monitoring programs, which assess the performance of the SEMP is implemented.</p> <p>Investigate and report incidents and non-conformance and ensure corrective and preventive action is taken and is effective.</p> <p>Provide leadership sufficient to inspire and influence others to achieve the Project objectives and targets</p> <p>Manage and track compliance with all environmental approvals, licences, permits and other obligations.</p> <p>Lead the tracking of environmental and sustainability targets for the Project.</p> <p>Ensure appropriate environmental training is identified in a Training Needs Analysis and that training is provided to personnel where required.</p> <p>Review and update this SEMP, as required.</p> <p>Prepare environmental data for monthly reports.</p>
Regional Environment & Sustainability Manager	<p>Provide regional functional and technical support for the Project as required.</p> <p>Review and provide guidance on the tracking of environmental and sustainability targets for the Project.</p>
Community & Stakeholder Advisor	<ul style="list-style-type: none"> • Day-to-day management of communication and engagement with community and stakeholders including door knocks, hosting face-to-face meetings, community information sessions. • Recording stakeholder and community interactions. • Liaising directly with the Contractor to forecast need for community communication and flagging this as early as possible. • In accordance with MCoA B Section 6, this role is responsible for fulfilling the role of Public Liaison Officer. This role will assist the public with questions and complaints they may have at any time during work. The Community and Stakeholder Officer must be available at all times that work is occurring. • Identifying potential and emerging risks, issues and concerns. • Managing the resolution of complaints. • Leading the range of consultation, engagement and communication activities during site establishment work in line with responsibilities and actions set out in the approved CCS. • Development of and managing approval of draft responses to stakeholders during site establishment works. • Providing updates on CCS activities and preparing weekly and monthly reports. • Overseeing the distribution of this communication to the areas required • Answering calls and emails on Project phone number and email address • Updating Consultation Manager
Engineering / Design Manager	<p>Provide effective environmental leadership.</p> <p>Ensure designs are undertaken in accordance with the requirements of the scope of works, technical requirements, relevant standards and this SEMP.</p> <p>Ensure design has minimal environmental impact.</p> <p>Ensure processes and resources are in place to adhere to environmental and sustainability obligations where they affect design or are affected by design.</p> <p>Participate in incident and non-conformance report investigations and ensure that corrective and preventative action proposed is implemented effectively.</p>
Project and Site Engineers	<p>The environmental responsibilities of the Project/Site engineers include (but are not limited to) the following:</p>



Role	Responsibilities
	<ul style="list-style-type: none"> • Provide input into the preparation of environmental planning documents as required. • Ensure that instructions are issued, and adequate information provided to employees that relate to environmental risks on-site. • Ensure that the works are conducted in accordance with the requirements of the SEMP and supporting documentation, including the implementation of all environmental controls. • Identify any environmental risks. • Identify resource needs for implementation of SEMP requirements and related documents. • Ensure that complaints are investigated to ensure effective resolution. • Take action in the event of an emergency and allocate the required resources to minimise the environmental impact. • Report any activity that has resulted, or has the potential to result, in an environmental incident immediately to the Superintendent and ESL.
Superintendent	<p>The environmental responsibilities of the superintendent include (but are not limited to) the following:</p> <ul style="list-style-type: none"> • Ensure that requirements of this SEMP are communicated to all personnel under his/ her control. • Be aware of all environmental risks, issues and concerns relating to his/ her area of work. • Be aware of all approval and contractual conditions relating to his/ her area of work. • Perform surveillance and monitoring of environmental controls to ensure they are adequately established, effective and maintained. • Support the ESL in achieving the project environmental objectives, including on ground implementation of EWMS and PESCP's. • Report any activity that has resulted, or has the potential to result, in an environmental incident immediately to ESL. • Co-ordinate action in emergency situations and allocate required resources <p>Stop activities where there is an actual or immediate risk of harm to the environment and advise the Project Manager and ESL.</p>
Supervisors	<p>The environmental responsibilities of the Supervisor/s include (but are not limited to) the following:</p> <ul style="list-style-type: none"> • Undertake any environmental duties as defined by the superintendent or Site project engineer. • Control field works and implement/maintain effective environmental controls. • Where required, undertake environmental risk assessment of works prior to commencement. • Ensure site activities comply with EWMS and PESCP's and relevant records are kept. • Ensure all site workers are site inducted prior to commencement of works. • Address any spills or environmental incidents that may occur on-site. • Report any activity that has resulted, or has the potential to result, in an environmental incident immediately to the Superintendent. <p>Stop activities where there is an actual or immediate risk of harm to the environment and advise the Project Manager, Superintendent or ESL.</p>
All personnel Including Sub Contractors	<p>The environmental responsibilities of the wider project team (including sub – contractors) include (but are not limited to) the following:</p> <ul style="list-style-type: none"> • All personnel are responsible for complying with environmental controls and requirements of this SEMP.



Role	Responsibilities
	<ul style="list-style-type: none"> • Active awareness, demonstrated by reporting inadequate environmental controls or practices to supervision. • Participate in the mandatory Project/site induction program and training/toolboxes. • Report any environmental incidents to the Supervisor immediately or as soon as practicable if reasonable steps can be adopted to control the incident. • Undertake remedial action as required to ensure environmental controls are maintained in good working order. <p>Stop activities where there is an actual or immediate risk of harm to the environment and advise the Project Manager, Superintendent, Supervisor or ESL.</p>
Transport for NSW Environmental Manager	<p>The environmental responsibilities of the Transport for NSW Environmental Manager include, but are not limited to, the following:</p> <ul style="list-style-type: none"> • Review any environmental management plans and related documents prepared for the Project • Review and consider minor Project refinements that are consistent with the Project environmental assessment in accordance with the Transport for NSW Division 5.2 Environmental Assessment Procedure and Environment Branch requirements • Monitor the environmental performance of the Project in relation to Transport for NSW requirements • Provide guidance and where appropriate, monitor compliance with DPE post approval document submission requirements.
Transport for NSW Representative	<p>The environmental responsibilities of the Transport for NSW Representative include (but are not limited to) the following:</p> <ul style="list-style-type: none"> • Evaluate and advise on compliance with Transport for NSW environmental requirements • Review and approve any environmental management plans for the Project or related activities that are not required to be approved by the Minister of DPE.
Transport for NSW Community Manager	<ul style="list-style-type: none"> • Working with the Construction and Project team to identify and resolve issues that have the potential to jeopardise Transports reputation. • Supporting the communication advisor in the resolution of complaints as required and ensuring close out • Managing approvals for day-to-day correspondence, • Draft Project Communication to be distributed to stakeholders and used at information sessions/community events/activities during site establishment works. • Monitoring social media and referring relevant matters to Transports Media Team. • Submitting project weekly/ monthly reports. • Evaluation of CCS in meeting its objectives. • Reviewing potential and emerging risks, issues and concerns including consulting with stakeholders as required and recommending options for their resolution/ mitigation. • Communicating 'key messages' to subcontractors and key stakeholders.
Transport for NSW Public Liaison Office	<ul style="list-style-type: none"> • Assist the public with questions and complaints they may have at any time during Work. • Be available at all times that Work is occurring. • Maintain the 24-hour complaints hotline • Maintain the complaints register in accordance with the Complaints Management System



Role	Responsibilities
	<ul style="list-style-type: none"> Report any environmental issues to the McConnell Dowell Environment & Sustainability Lead raised by stakeholders or members of the community.
(Independent) Environmental Representative (ER)	<p>The environmental responsibilities of the Environmental Representative are detailed in MCoA A32 and include:</p> <ul style="list-style-type: none"> receive and respond to communication from the Planning Secretary in relation to the environmental performance of the SSI; consider and inform the Planning Secretary on matters specified in the terms of this approval; consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community; review documents identified in Conditions A7, A19, A20, A22, C1, C6 and C14 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this approval and if so: <ul style="list-style-type: none"> make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or (make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary / Department for information or are not required to be submitted to the Planning Secretary/Department); and provide a written statement / submission via the Major Projects portal to the Planning Secretary advising the documents have been endorsed by the ER; regularly monitor the implementation of the documents listed in Conditions A7, A20, C11, C6 and C14 to ensure implementation is being conducted in accordance with the document and the terms of this approval; as may be requested by the Planning Secretary, help plan or attend audits of the development commissioned by the Department including scoping audits, programming audits, briefings, and site visits, but not independent environmental audits required under Condition A37 of this approval; as may be requested by the Planning Secretary, assist in the resolution of community complaints; consider or assess the impacts of minor construction ancillary facilities comprising lunch sheds, office sheds and portable toilet facilities as required by Condition A21 of this approval; consider any minor amendments to be made to the Site Establishment Management Plan, CEMP, CEMP Sub-plans and monitoring programs without increasing impacts to nearby sensitive land uses or that comprise updating or are of an administrative nature, and are consistent with the terms of this approval and the CEMP, CEMP Sub-plans and monitoring programs approved by the Planning Secretary and, if satisfied such amendment is necessary, approve the amendment. This does not include any modifications to the terms of this approval; prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading "Environmental Representative Monthly Reports." The Environmental Representative Monthly Report must be submitted within seven days following the end of each month for the duration of the ER's engagement for the SSI, or as otherwise agreed by the Planning Secretary; and review the appropriateness of any activities reliant on the definition of Low Impact Work.



11.2 TRAINING

All personnel will receive training of a type and level of detail that is appropriate for the environmental aspects of their routine and emergency work assignments. As a minimum, all personnel are required to satisfactorily complete the Project Induction Training. Other mechanisms of raising environmental awareness are through toolbox talks, pre-start meetings, HSEQ alerts and more specialised training. Attendance records and assessments of all training and briefing sessions will be maintained.

Other training needs are assessed on a job-by-job, and position-by-position basis.

Table 11-2 Environmental Awareness Training Methods

Training Method	Description
Project Induction	<p>The induction includes a presentation of the requirements of this SEMP and associated documents. All personnel are to attend the Project induction prior to starting work on site. The purpose of the induction is to ensure that, at a minimum, the employee or sub-contractor understands:</p> <ul style="list-style-type: none"> • Key issues relevant to the Project and existing environment. • Environmental Policy and the environmental management framework • Concepts of environmental protection, due diligence and duty of care. • Environmental permits, approvals, licenses and relevant conditions. • Roles and responsibilities relating to environmental management for the Project and consequences of non-compliance. <p>The project induction will also include Aboriginal Cultural Heritage Awareness. This will ensure they are aware of the site’s heritage values and context. Updates will be provided based on stakeholder feedback, consultation with the La Perouse Local Aboriginal Land Council and Registered Aboriginal Parties and following any unexpected finds.</p>
Pre-Start Meetings	<p>Pre-Start meetings will be undertaken at the beginning of each day/ shift before work commences with all personnel present (including subcontractors as required). Specific environmental issues relevant to the shift’s work will be raised and discussed at these meetings.</p>
HSEQ Alerts	<p>HSEQ alerts are descriptions of serious health, safety, environmental or quality incidents and lessons learnt from other McConnell Dowell Group projects and facilities and relevant industry incident.</p> <p>They are sent out to all McConnell Dowell Group management and HSEQ staff and are presented and discussed at Pre-Start Meetings and Toolbox Talks and posted on notice boards.</p>

11.3 COMPLAINTS MANAGEMENT

Transport for NSW will prepare and implemented a Complaints Management System for the commencement of any Work in accordance with the requirements of MCoA B7.

All community inquiries and complaints related to the site establishment activities will be referred to the 24-hour community information line (1800 718 556). A postal address, website ([Kamay ferry wharves | Transport for NSW](#)) and email address (kamaywharves@mcdgroup.com) has been provided for receipt of complaints and enquiries. Records of all complaints received will include the following details:

- Date and time of the complaint
- Method by which the complaint was made
- Any personal details of the complainant
- The nature of the complaint
- Action taken in relation to the complaint and any follow up
- If no action taken, reasons why.



This information will be included in Complaints Register by the McConnell Dowell. The information contained within the register will be made available to the Minister on request.

Attempts will be made to resolve all complaints in accordance with the community engagement strategy. An initial response to complaints will be provided within 24 hours of a complaint being received. A further detailed response, including steps taken to resolve the issue(s) that lead to the complaint, will be provided within 10 days. All complaints will be closed off in the stakeholder database. At all times, the stakeholder will be kept informed of when they will receive a response.

The Construction Environment & Sustainability Lead will apply an adaptive approach to ensure that corrective actions are applied in consultation with the appropriate staff to allow modifications and improvements in the management of any environmental issues resulting in community complaints.

A written report would be provided to Transport for NSW within one working day of receiving a complaint. This would outline the complaint and action taken to remedy the problem. A final report which would include proposed measures to prevent reoccurrence would be submitted to Transport for NSW within five working days.

11.4 HOLD POINTS

Table 11-3 Hold Points for Site Establishment

Type	Description	Reference
Hold Point	The Principal granting the Contractor access to the Site: Within 20 Business Days prior to the Principal granting access to the Site, the Contractor must submit the required documentation.	20BD Prior
Hold Point	Commencement of site establishment activities: Within 10 Business Days prior to the commencement of the relevant site establishment activities, the Contractor must prepare and submit to the Principal a Construction Method Statement	10 BD Prior
Hold Point	Work to provide the Principal's project accommodation: Details of the following: <ul style="list-style-type: none"> location and layout of site office compound, showing arrangement of the individual buildings, car parking area and access road; Plan and internal layout of buildings; Furniture, appliances and fixtures, and any other items to be provided, and their locations; Security measures, including procedures if the alarm is triggered; Any approved alternatives to specified requirements; Program for the construction and fit-out of the Principal's project accommodation 	
Hold Point	Potholing and any other ground penetrating activities.: At least 5 working days prior, provide details of the proposed potholing and any other ground penetrating activities including proposed location(s) of the works in relation to existing utilities and sensitive environmental areas	5 BD Prior
Hold Point	Commencement of utility adjustment work other than excavation: At least 5 working days prior, submit the name of the contractor carrying out the utility adjustment work and evidence of accreditation, detailed construction work plan indicating when shutdowns and/or cutovers are scheduled, details of any proposed temporary service connections, and evidence of the utility owner's approval for the adjustments. For Sydney Water asset adjustment works, where required, submit also copies of quotations from at least three Sydney Water accredited Constructors	5BD Prior
Hold Point	Commencement of work at the Site, or commencement of any stage of work not previously addressed by the Plan and authorised by earlier Hold Point release:	20 BD Prior



	At least 20 Business Days prior, submit the Plan and any supporting documentation. Where the Plan is submitted progressively, submit the relevant sections of the Plan at least 20 Business Days prior to the proposed commencement of the stage of work nominated in your submission	
Hold Point	Commencement of work on the Site: At least 20 working Business Days prior, submit the HVCoR Management Plan and any supporting documentation.	20 BD Prior
Hold Point	Working in or near environmentally sensitive areas. At least 5 working days prior, provide to the Principal a copy of the EWMS for working in or near the environmentally sensitive areas and written notice that the environmentally sensitive areas are clearly delineated with locations and boundaries signposted.	5 BD Prior
Hold Point	Taking possession of any land nominated or authorised by the Principal for use for the Contractor's site facilities: Pre-construction land condition assessment report for each area which you intend to use for the Contractor's site facilities, and evidence of any necessary statutory and environmental approvals.	
Hold Point	Commencement of work requiring the installation of erosion control and sediment capture measures not previously addressed by ESCP and authorised by earlier Hold Point release. Drawings prepared progressively for sections of the Site where work is to commence. The drawing(s) must be submitted at least ten working days before disturbance of the surface of the section of the Site.	10 BD Prior
Hold Point	Commencement of any work at the Site: PROJECT QUALITY PLAN for survey, including: (a) survey procedures and evidence that they are capable of achieving the specified Orders of Accuracy (b) strategy for the replacement of survey control marks and cadastral reference marks	

11.5 ENVIRONMENTAL INSPECTIONS

Environmental inspections will be undertaken for the duration of the site establishment works. The type and frequency of environmental inspections will be determined by the environmental risk assessment and reflect the minimum requirements detailed in Table 11-3.

Environmental inspections undertaken by McConnell Dowell environmental personnel will be documented on the online inspection form. Copies of all environmental inspection reports prepared by McConnell Dowell environmental personnel, TfNSW, the ER and/or ERG will be kept with the project records and closed out within the agreed timeframes.

Table 11-4 Environmental Inspection types

Inspection Requirement	Description
Environment & Sustainability Inspections	Environmental compliance inspections are carried out by the Construction Environment & Sustainability Lead and Environmental Site Representative for the Project or relevant work areas. Inspections are to be conducted weekly and /or post rainfall (more than 10mm of rain in a 24hr period). The findings of the Inspection are recorded on Weekly Environment & Sustainability Inspection (CMO), in which required remedial actions are also recorded, including a responsibility and timeline for completion. These shall be monitored to ensure that they are closed out in the required time frame.
TfNSW Inspections	TfNSW to attend ER inspections and carry out other inspections based on an assessment of risk or to confirm action close out as appropriate.



ER Inspections	Site Inspections by the ER at a frequency determined with TfNSW. Inspection to cover onsite environmental management and compliance with obligations / conditions of approval.
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11.5.1 ACTION TRACKING REGISTER

All actions identified during environmental inspections will be tracked in an action tracking register and closed out within the required timeframes by the allocated personnel. The register will list the required action, date raised, status, and close out date. This register will be updated and monitored by the Environment & Sustainability Lead.

11.5.2 ER AND TfNSW INSPECTIONS

The ER and TfNSW Project Managers (or delegates) and TfNSW ESM (or delegate) will conduct regular inspections of work sites and critical activities throughout site establishment works. Inspections by the ER and TfNSW will typically occur on a weekly or fortnightly basis (unless otherwise agreed between the ER and TfNSW) depending on the complexity and anticipated risks associated with the type of works being conducted onsite. Inspections will be conducted in accordance with the TfNSW inspection procedure.

The Environment & Sustainability Lead, and Project Engineer / Construction Manager / Supervisor will participate in all ER and TfNSW inspections and will maintain appropriate records. Deficiencies and required actions will be analysed and prioritised at the completion of the inspection and timeframes for implementation of corrective actions agreed in accordance with the TfNSW inspection procedure. Timeframes for the close out of issues will be discussed at the end of the inspection and nominated in the inspection form.

11.5.3 INSPECTIONS BY THE EPA AND OTHER AGENCIES

The Environment & Sustainability Lead will prepare a report on each occasion that the site is visited by the EPA and/or other relevant agencies. The report will advise TfNSW of the purpose and outcome of the EPA and/or other relevant agencies visit, and of all actions taken by McConnell Dowell in response to the EPA visit and/ or other relevant agencies.

The report will be provided to TfNSW within five working days of the visit.

11.6 MONITORING

Monitoring will be undertaken to validate the impacts predicted for site establishment of the project, to measure the effectiveness of environmental controls and implementation of the SEMP and to address approval requirements and is outlined in Table 11-4.

Table 11-5 Monitoring Requirements for Site Establishment

Type	Details	Frequency
Noise Monitoring	Attended monitoring will be carried out at the commencement of site establishment activities to confirm predicted noise levels	At the start of site establishment activities
	Attended monitoring where a complaint is received, and monitoring is considered an appropriate response to determine if noise levels exceed predicted 'worst case' noise levels documented	Following a verified noise complaint



Air Quality Monitoring	Weather forecast (e.g., rainfall and wind) will be checked and communicated to site personal to allow for proactive dust management actions to be implemented	Daily / Weekly
	Visual surveillance for dust emissions or sediment tracking off-site	Daily

Any monitoring data (including sensitive ecological data), surveys, maps and other spatial and metadata will be prepared in accordance with the Guidelines for biological survey and mapped data (Commonwealth of Australia 2018) and the Guide to providing maps and boundary data for EPBC Act projects (Commonwealth of Australia 2021) as required

11.7 REPORTING

The Construction Environment & Sustainability Lead is responsible for managing environmental performance reporting. The Project Manager is responsible for submitting the reports required externally.

Reporting requirements are:

- Reporting to client and key stakeholders as specified within contract documents.
- Specific reporting to regulatory agencies.
- Reporting as required by legislation.
- Monthly National Greenhouse and Energy Reporting information
- Sustainability data reporting (including energy use, water use and waste generation).

Table 11-5 outlines the reporting requirements applicable to the Project, timing of the reporting, who is responsible for managing preparation of the reports and the intended recipient(s).

Table 11-6 Environmental Reporting requirements during Site Establishment

Report	Requirement	Timing	Responsibility
Monthly environmental report	For incorporation in Project Monthly Reports including environmental statistics (i.e., incidents, regulatory action, complaints on environmental issues), regulatory and authority considerations, monitoring program performance and key environmental issues	Within 10 working days of the end of each calendar month.	Construction Environment & Sustainability Lead
ER inspection report	Report of site environmental performance following routine inspections.	Monthly	Environmental Representative
Environmental risk assessment	Conducted for each stage of work, Project changes and significant issues.	Prior to site establishment and as required thereafter.	Construction Environment & Sustainability Lead, Construction Manager
Monitoring results and/or report	Report on monitoring data recorded and potential exceedances against criteria.	Refer to Section 11.6	Construction Environment & Sustainability Lead
Transport for NSW environmental inspection reports	Response to matters raised in Transport for NSW site inspections.	As required. Typically, every two weeks for Transport for NSW inspection reports.	Construction Environment & Sustainability Lead



EPA and/or DPE environmental inspection reports	Response to matters raised in DPE and/or EPA site inspections.	As required. Typically, monthly.	Construction Environment & Sustainability Lead
ER reports	Monthly report of activities on site	Monthly	ER
Waste Avoidance and Resource Recovery Report	Information relating to wastes generated or recycled.	Annual within one month form 1 July and at actual completion date	Construction Environment & Sustainability Lead
Air Emissions Performance Report	Report on conformity, or otherwise, of mobile non-road diesel plan and equipment with relevant standards or approved equivalent emission standards.	Annual before 31 July and at actual completion date	Construction Environment & Sustainability Lead

11.8 AUDITING

11.8.1 INDEPENDENT AUDITS

Independent Audits will be carried in accordance with DPE *Independent Audit – Post Approval Requirements* (May 2020). Independent Audits will not occur during site establishment, however within the first 12 weeks of construction works commencing, an independent audit will occur with site establishment activities forming part of the audit scope.

11.9 NON-CONFORMANCES

Corrective and preventative actions may be identified from inspections, audits, non-conformances, incidents, management reviews and complaints. Corrective and preventative actions will be raised, assigned, tracked and closed out in the CMO compliance database.

The CMO database is used to record and monitor close-out of all corrective actions arising from hazard reports, incident reports, audits and inspections.

CMO is to be accessible to Project Management personnel and key team members, including environmental management and HSEQ representatives for review and close out of outstanding items.

Persons responsible for close out of corrective actions are to ensure that the items are closed out prior to the end of the close out date. Unclosed items that have passed the close out date shall be raised and discussed at team meetings and elevated as required for management action.

Where any changes and improvement to working practices are identified through the investigation of environmental incidents, these will be assessed and incorporated into the SEMP as part of the incident reporting and investigation process.

11.10 HSEQ ALERTS

Where a repeat incident occurs or where there is a significant incident, a HSEQ Alert may be issued.

HSEQ Alerts are used where incidents with broader implications and lessons that may be applicable to other Projects are summarised and distributed to disseminate findings more widely. HSEQ Alerts from other Projects and Facilities may also be relevant to this Project Where applicable these lessons are communicated to the work force through Toolbox Talks and Pre-Start Meetings.



12 INCIDENT MANAGEMENT, REPORTING AND INVESTIGATION

12.1 INCIDENT MANAGEMENT, REPORTING AND INVESTIGATION

In the event of an environmental incident, Transport for NSW's Environmental Incident Procedure will be implemented by McConnell Dowell (Attachment F).

Onsite management of environmental incidents are the responsibility of the Manager with assistance from any other resources required to contain the incident and prevent further environmental harm.

The cause of all incidents will be subject to an investigation, convened by the Environmental Manager to determine the root causes of the incident and to ensure that remedial / corrective action is able to be implemented to ensure a repeat of the incident is avoided.

A summary and review of incidents for the duration of the Project and for the relevant month shall be included in the Project Monthly Report.

12.2 NOTIFICATION PROCEDURE

Transport for NSW and applicable Regulator (where relevant) shall be notified of incidents that trigger notification as defined in the Incident Reporting and Investigation procedure. These triggers include offsite discharges, unauthorised disturbance or destruction of fauna, flora or heritage sites and breaches and non-conformances of licences and permits issued for the Project

The Project Manager or Construction Environment & Sustainability Lead is responsible for notifying the Client and parent companies of reportable incidents.

The Construction Environment & Sustainability Lead is responsible for notifying relevant Regulators along with discussions with Transport for NSW.

12.3 INCIDENT REPORTING - DPE

DPE must be notified immediately after the Transport for NSW becomes aware of an incident as defined in the MCoA A42. The notification must identify the SSI (including the application number and the name of the SSI if it has one) and set out the location and nature of the incident. Subsequent notification must be given, and reports submitted in accordance with the requirements set out in MCoA A43, included below.

A written incident notification addressing the requirements set out below must be submitted to the Department via the Major Projects website within seven days after the Proponent becomes aware of an incident.

Written notification of an incident must:

- identify the SSI and application number
- provide details of the incident (date, time, location, a brief description of what occurred and why it is classified as an incident)
- identify how the incident was detected
- identify when the Proponent became aware of the incident
- identify any actual or potential non-compliance with terms of the approval
- describe what immediate steps were taken in relation to the incident
- identify further action that will be taken in relation to the incident
- identify a project contact for further communication regarding the incident.



In accordance with MCoA A43, within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, the Proponent must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident addressing all requirements below, and such further reports as may be requested.

The Incident Report must include:

- a summary of the incident
- outcomes of an incident investigation, including identification of the cause of the incident
- details of the corrective and preventative actions that have been, or will be, implemented to address the incident and prevent recurrence
- details of any communication with other stakeholders regarding the incident.

12.4 INCIDENT REPORTING - EPA

The EPA will be notified by McConnell Dowell of any pollution incidents on or around the site via the EPA Environment Line (telephone 131 555) in accordance with Part 5.7 of the *Protection of the Environment Operations Act 1997* (NSW) (POEO Act). The circumstances where this will take place include:

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

12.5 INCIDENT REPORTING – OTHER AGENCIES

Other Agencies may need to be notified by McConnell Dowell coordination with TfNSW, in the event of an incident, these may include:

- Emergency Services such as NSW Fire & Rescue, NSW Police and NSW Ambulance
- Relevant Local Councils, Sutherland Shire Council and Randwick City Council
- Port of NSW Authority
- DPI Fisheries



13 REVIEW AND IMPROVEMENT

13.1 CONTINUOUS IMPROVEMENT

Continuous improvement of this Plan will be achieved by the ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement. The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance
- Determine the cause or causes of non-conformances and deficiencies
- Develop and implement a plan of corrective and preventative action to address any nonconformances and deficiencies
- Verify the effectiveness of the corrective and preventative actions
- Document any changes in procedures resulting from process improvement
- Make comparisons with objectives and targets
- McConnell Dowell will be responsible for ensuring Project environmental risks are identified and included in the risk register and appropriate mitigation measures implemented throughout the Project as part of the continuous improvement process.



APPENDIX A: ENVIRONMENT AND SUSTAINABILITY POLICIES

Environmental Policy



McConnell Dowell undertakes a reflective, resourceful, inclusive and flexible approach to environmental management, underpinned by a robust ISO 14001 certified integrated management system. McConnell Dowell acts today with the future in mind and commits to:

- Having visible and demonstrated environmental leadership throughout the business to equip, inspire, empower and lead our people to win and deliver environmentally sound projects.
- Complying with applicable environmental legislation, regulations, codes of practice, customer and project specific requirements.
- Establishing measurable objectives and targets to quantify our environmental performance, committing to and demonstrating continual improvement.
- Ensuring strong and positive leadership engagement with tender and project delivery teams at all levels to understand and resolve the environmental challenges they face.
- Monitoring our environmental performance and identifying initiatives that lead to improved environmental outcomes.
- Developing and implementing methods to protect the environment, prevent pollution and eliminate or minimise significant environmental impacts.

- Ensuring the efficient use of resources including energy, water and materials, and providing responsible waste management.
- Promoting innovative thinking and practices to achieve positive environmental outcomes.
- Understanding our customers, business partners and subcontractors' environmental capabilities and priorities and working together to develop common strategies to achieve shared goals.
- Identifying and communicating non-conformities, lessons learnt and corrective actions arising from environmental incidents to enhance environmental performance.
- Provision of the necessary resources and management support to achieve environmental goals.
- Equipping all employees with the knowledge, skills and resources to achieve our environmental goals. Engaging with employees, subcontractors, customers, and other key stakeholders on environmental issues.



Scott Cummins
Chief Executive Officer
McConnell Dowell Corporation Limited

HSEQ-ENV-POL001-GEN-GRP
REV3 10MAR2022





Sustainability Policy



McConnell Dowell undertakes its activities integrating social, environmental, economic and good corporate governance considerations. We do this with the objective of avoiding and mitigating harm to the environment, contributing to and enhancing the resilience of the communities in which we operate, and creating shared value for our customers and our people. We commit to:

- Industry leadership through our professionalism, competence and active industry participation.
- Industry leading approaches to shared value generation through the delivery of safe, smart and efficient infrastructure.
- Accountability and management responsibility through delivering on what we promise and understanding and meeting our customers' needs and community expectations.
- Promotion of sustainable construction practices, including the prevention and mitigation of environmental pollution, climate change adaptation, the efficient and sustainable use of resources, and the principles of inclusion, engagement, equality and diversity.
- Generating growth in our business and the industry by fostering long-term, strong and positive partnerships with customers, communities, regulators, industry bodies and other key stakeholders.
- Addressing the risk of modern slavery across the business and implementation of our Modern Slavery Statement.
- Taking all reasonable steps to prevent modern slavery in our operations and supply chains.
- Ensuring our procurement choices and selection of suppliers and subcontractors is achieved in a balanced and holistic manner which includes sustainability.
- Actively encouraging continual improvement and promoting innovation, adaptability and resilience.
- We actively encourage the implementation of initiatives that leave a positive legacy for our stakeholders, the environment and communities in which we operate.
- Consideration of the appropriate use of materials, including water and energy, and the resulting generation of waste and carbon emissions in all our activities. Understanding and reducing our carbon, energy, materials and water footprints.
- Creating opportunities and involving, engaging and integrating with the communities in which we work.
- Nurturing the health, wellbeing and quality of life of those we work with and alongside. Everyone goes home without harm, every day.
- Protecting our business, our partners and customers through good corporate governance, compliance and sound risk management



Scott Cummins
Chief Executive Officer
McConnell Dowell Corporation Limited

HSEQ-ENV-POL002-GEN-GRP
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APPENDIX B: LEGAL REQUIREMENTS AND COMPLIANCE TRACKING REGISTER

LEGISLATION AND REGULATORY REQUIREMENTS

Legislation relevant to this Plan includes:

- Biodiversity Conservation Act 2016 (BC Act)
- Biosecurity Act 2015
- Contaminated Land Management Act 1997 (CLM Act)
- Environmental Planning and Assessment Act 1979 (EP&A Act)
- Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)
- Heritage Act 1977
- National Parks and Wildlife Act 1974 (NPW Act)
- Pesticides Act 1999
- Protection of the Environment Operations Act 1997 (POEO Act)
- Work Health and Safety Act 2011 (WH&S Act).

GUIDELINES

The main guidelines and policy documents relevant to this SEMP include:

- AS/NZS 4282:2019 Control of the Obtrusive Effects of Outdoor Lighting
- Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZECC/ARMCANZ, 2000)
- Interim Noise Construction Guideline (ICNG) (EPA, 2009)
- German Standard DIN 4150-3: Structural Vibration -effects of vibration on structures
- Managing Urban Stormwater: Soils and Construction. Volume 2D: Main Road Construction, DECC (2008)
- Managing Urban Stormwater: Soils and Construction. Volume 1: 'Blue Book', Landcom (2004)
- TfNSW Biodiversity Guidelines (September 2011)
- Transport for NSW Construction Noise and Vibration Guidelines (TfNSW, 2016)
- Transport for NSW Noise Criteria Guideline (TfNSW, 2015)
- Transport for NSW Noise Mitigation Guidelines (TfNSW, 2015)
- Waste Classification Guidelines (EPA, 2014).



MINSTERS CONDITIONS OF APPROVAL

The MCoA relevant to this Plan are listed Table B-1. A cross reference is also included to indicate where the condition is addressed in this Plan or other project management documents.

Table B-13-1 Ministers Conditions of Approval

MCoA No.	Condition Requirements	Document Reference
A19	Construction ancillary facilities that are not identified by description and location in the documents listed in Condition A1 can only be established and used in each case if:	Section 10.3
	(a) they are located within or immediately adjacent to the construction boundary;	
	(b) they are not located next to sensitive land use(s) (including where an access road is between the facility and the land use), unless the landowner and occupier have given written acceptance to the carrying out of the relevant facility in the proposed location;	Section 10.3
	(c) they have no impacts on heritage items (including areas of archaeological sensitivity), threatened species, populations or ecological communities beyond the impacts approved under the terms of this approval; and	Section 10.3
(d) the establishment and use of the facility can be carried out and managed within the outcomes set out in the terms of this approval, including in relation to environmental, social and economic impacts.	Section 10.3	
A20	Before the establishment of a construction ancillary facility that is required prior to the approval of a CEMP (excluding minor construction ancillary facilities determined by the ER to have minimal environmental impact and those established under Condition A22), the Proponent must prepare a Site Establishment Management Plan which outlines the environmental management practices and procedures to be implemented for the establishment of the construction ancillary facilities.	This Plan
	The Site Establishment Management Plan must be prepared in consultation with the relevant council and government agencies.	Section 2.1
	The Plan must be submitted to the Planning Secretary for approval one month before the establishment of any construction ancillary facilities.	Section 3
	The Site Establishment Management Plan must detail the management of the construction ancillary facilities and include:	Section 6.4
	a) a description of activities to be undertaken during establishment of the construction ancillary facility (including scheduling and duration of work to be undertaken at the site)	
	b) figures illustrating the proposed operational site layout and the location of the closest sensitive land use(s);	Appendix C
	c) a program for ongoing analysis of the key environmental risks arising from the site establishment activities described in subsection (a) of this condition, including an initial risk assessment undertaken prior to the commencement of site establishment work;	Section 8.1
	d) details of how the site establishment activities described in subsection (a) of this condition will be carried out to:	Section 9.6
i. meet the performance outcomes stated in the documents listed in Condition A1; and		
ii. manage the risks identified in the risk analysis undertaken in subsection (c) of this condition; and	Section 8.1 Appendix D	



	e) a program for monitoring the performance outcomes, including a program for construction noise monitoring.	Section 11.6
	Nothing in this condition prevents the Proponent from preparing individual Site Establishment Management Plans for each construction ancillary facility.	Noted
	Note: This plan is only needed before a CEMP is approved. Once a CEMP is approved a Site Establishment Management Plan(s) is not required.	Noted
A21	A construction ancillary facility established under Condition A19 must not be used for Construction until the CEMP required by Condition C1, relevant CEMP Sub-plans required by Condition C6 and relevant CMPs required by Condition C14 have been approved.	Section 1.3
A22	Minor construction ancillary facilities can be established and used where they have been assessed in the documents listed in Condition A1 or satisfy the following criteria:	Section 10.1
	(a) are located within or immediately adjacent to the construction boundary; and	
	(b) have been assessed by the ER to have:	Section 10.1
	i. minimal amenity impacts to surrounding residences and businesses, after consideration of matters such as compliance with the Interim Construction Noise Guideline (DECC, 2009) (ICNG), traffic and access impacts, dust and odour impacts, and visual (including light spill) impacts;	
	ii. minimal environmental impact with respect to waste management and flooding; and	Section 10.1
	iii. no impacts on biodiversity, soil and water, and heritage items beyond those already approved under other terms of this approval	Section 10.1
A23	Boundary screening must be erected between construction ancillary facilities (excluding minor construction ancillary facilities) and adjacent to sensitive land use(s) for the duration of the time that the construction ancillary facility is in use, unless otherwise agreed with the owner and occupier of the adjacent sensitive land use(s). Boundary screening must minimise visual impacts on adjacent sensitive land use(s) and must incorporate Indigenous artwork wherever visible.	Section 9.6 (SE4 & SE5)
A24	The SSI name, application number, telephone number, postal address and email address required under Condition B8 of this approval must be made available on site boundary fencing / hoarding at each construction ancillary facility before the commencement of construction. This information must also be provided on the website required under Condition B12 of this approval.	Section 6.2 & Section 9.6 (SE5)
E27	The Proponent must undertake a visual inspection before commencement of construction of AHIMS Site # 45-6-0650 (Site 3 - La Perouse) and AHIMS Site # 45-6-0651 (Site 4 - La Perouse and geotextile fabric (or similar) should be laid on the ground surface within the location of both sites.	Section 9.6 (SE55)
E29	During construction works impacts to the exposed sandstone surrounding AHIMS Site # 45-60653 (Site 6 - La Perouse) must be avoided. Visual markers must be used to delineate these areas.	Section 9.6 (SE57)
E31	Supervision by an appropriately qualified and experienced archaeologist is required for any excavation near AHIMS Site #52-3-0219 (Foreshore Midden — Captain Cook's Landing Place) where it exceeds 400mm in depth. If Aboriginal cultural heritage is identified during the proposed works, further archaeological investigations may be required. This must be determined in consultation with Heritage NSW, RAPs and La Perouse LALC	Section 9.6 (SE59)



E42	<p>Work must only be undertaken during the following hours: (a) 7:00am to 6:00pm Mondays to Fridays, inclusive;</p> <p>(b) 8:00am to 1 :00pm Saturdays; and</p> <p>(c) at no time on Sundays or public holidays</p>	Section 6.6 & Section 9.6 (SE15)
E45	<p>Mitigation measures must be implemented with the objective of achieving the following construction noise management levels and vibration objectives:</p> <p>(a) construction 'Noise affected' NMLs established using the Interim Construction Noise Guideline (DECC, 2009);</p> <p>(b) vibration criteria established using the Assessing vibration: a technical guideline (DEC, 2006) (for human exposure);</p> <p>(c) BS 7385 Part 2-1993 "Evaluation and measurement for vibration in buildings Part 2" as they are "applicable to Australian conditions"; and</p> <p>(d) the vibration limits set out in the German Standard DIN 4150-3: Structural Vibration- effects of vibration on structures (for structural damage).</p> <p>Work that exceeds the noise management levels and/or vibration criteria must be managed in accordance with the Noise and Vibration CEMP Sub-plan.</p> <p>Note: The ICNG identifies Particularly annoying' activities that require the addition of 5 dB(A) to the predicted level before comparing to the construction NML.</p>	Section 9.6 (SE16)
E60	<p>Prior to the commencement of any Work, erosion and sediment controls must be installed and maintained, as a minimum, in accordance with the publication Managing Urban Stormwater: Soils & Construction (4th edition, Landcom 2004) commonly referred to as the 'Blue Book'.</p>	Section 9.6 (SE35)
E75	<p>Before any local road is used by a heavy vehicle for the purposes of the SSI, a Road Dilapidation Report must be prepared for the road. A copy of the Road Dilapidation Report must be provided to the relevant council within three weeks of completion of the survey and no later than one month prior to the road being used by heavy vehicles associated with the SSI.</p>	Section 9.6 (SE13)
E78	<p>Construction and construction worker vehicles (including light and heavy vehicles) associated with the SSI must be accommodated within the construction boundaries on both the La Perouse and Kurnell sites at all times. On-site parking must be provided within the construction boundary to:</p> <p>(a) minimise parking on public roads;</p> <p>(b) minimise idling and queueing on local roads;</p> <p>(c) not carry out marshalling of construction vehicles near sensitive land use(s);</p> <p>(d) not block or disrupt access across pedestrian or shared user paths at any time; and</p>	Section 9.6 (SE6)
E90	<p>The SSI must be constructed in a manner that minimises adverse visual impacts of construction sites on the public domain, including provision of high quality public art and graphics to the hoarding surrounding the construction sites, minimising light spill, and incorporating high quality treatments and finishes for temporary structures that reflect the context within which the construction sites are located.</p>	Section 9.6 (SE26)
E92	<p>The SSI must be constructed and operated with the objective of minimising light spillage to surrounding properties and wildlife habitat. All lighting associated with the construction and operation of the SSI must be consistent with the requirements of AS/NZS 4282:2019 Control of the obtrusive effects of outdoor lighting and relevant Australian Standards in the series AS/NZ 1158 — Lighting for Roads and Public Spaces. Additionally, the Proponent must provide mitigation measures to manage any residual night lighting impacts to protect properties adjoining or adjacent to the SSI, in consultation with affected landowners.</p>	Section 9.6 (SE26)



E111	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 9.6 (SE60 & SE65)
E112	The importation of waste and the storage, treatment, processing, reprocessing or disposal of such waste must be done in accordance with a Resource Recovery Exemption or Order issued under the Protection of the Environment Operations (Waste) Regulation 2014, as the case may be.	Section 9.6 (SE66)
E113	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 Protection of the Environment Operations (Waste) Regulation 2014, or to any other place that can lawfully accept such waste.	Section 9.6 (SE66 & SE67)
E114	All waste must be classified in accordance with the EPA's Waste Classification Guidelines, with appropriate records and disposal dockets retained for audit purposes.	Section 9.6 (SE68)



EPBC CONDITIONS OF APPROVAL

Table B-13-2 EPBC Conditions of Approval

Ref	Description	Owner	Evidence
1)	The approval holder must not clear outside of the project area.	All	Section 7.3
National Heritage Places			
2)	The approval holder must comply with NSW Approval conditions E21 – E37 and E49 to minimise impacts on the Indigenous, Non-Indigenous, and Natural heritage values of Kurnell Peninsula Headland.	All	Section 7.5 Section 9.6
Listed Threatened Species and Ecological Communities			
3)	Within the project area, the approval holder must not clear more than: <ul style="list-style-type: none"> a) 0.0683 hectares of seagrass meadows b) 0.0683 hectares of White’s Seahorse habitat. 	All	Section 7.3 Section 9.6
4)	The approval holder must comply with NSW Approval conditions E6 – E8 and E11 related to preconstruction surveying and protection measures.	All	Section 7.3 Section 9.6
5)	The approval holder must comply with NSW Approval conditions E62 – E65, E67 – E68, and E70 related to the prevention and management of contamination on protected matters.	All	Section 7.4 Section 9.6
Marine Biodiversity Offset Strategy			
10)	The approval holder must comply with NSW Approval conditions E12 – E20 related to the requirements of the Marine Biodiversity Offset Strategy (MBOS) to compensate for the clearing of 0.0683 hectares of seagrass meadows and White’s Seahorse habitat.	TfNSW	TfNSW
11)	To monitor the outcomes of the MBOS for seagrass meadows and White’s Seahorse habitat, the approval holder must include a Marine Biodiversity Offset Report as part of the compliance report until at least the 10th anniversary of the commencement of the action, unless otherwise agreed to in writing by the Minister. Each Marine Biodiversity Offset Report must include: <ul style="list-style-type: none"> a. a progress report on the implementation of the MBOS; b. a list of success metrics; c. details of the monitoring methodology(ies) implemented and the locations of reference sites; d. monitoring results including a comparison against reference sites; e. a summary of any adaptive management steps taken to improve implementation and/or monitoring methodology(ies); and f. a conclusion as to whether the outcomes, as measured against the success metrics, have been achieved, are likely to be met or are unlikely to be met, as determined by a suitably qualified person. 	TfNSW	TfNSW
12)	To assess the ongoing success of the MBOS, the approval holder must submit a Rehabilitation Monitoring Review to the department within 6 years of the date of this approval and every 5 years thereafter, unless otherwise agreed to in writing by the Minister. Each Rehabilitation Monitoring Review must include: <ul style="list-style-type: none"> a. a review of the monitoring methodology by a suitably qualified person; b. a conclusion based on the success metrics as to whether the environmental offsets for seagrass 	TfNSW	TfNSW



	<p>meadows and White's Seahorse habitat have been achieved, are likely to be met or are unlikely to be met, as determined by a suitably qualified person; and</p> <p>c. if environmental offsets for seagrass meadows and White's Seahorse habitat have not been achieved based on the success metrics:</p> <ol style="list-style-type: none"> i. a list measurable and time-bound remediation measures which will be undertaken to ensure the success metrics are achieved; and ii. justification for how the remediation measures will provide full compensation for the impacts to seagrass meadows and White's Seahorse habitat. 		
Submission and Publication of Plans			
13)	The approval holder must submit all plans required by these conditions electronically to the department.	TfNSW	TfNSW
14)	If the approval holder submits a revised version of a plan for the Planning Secretary's approval, the approval holder must provide the revised plan to the department within 5 business days and an explanation of the differences between the approved plan and the revised plan.	TfNSW	TfNSW
15)	If a revised version of a plan is approved by the Planning Secretary, the approval holder must provide the revised plan to the department within 10 business days of the Planning Secretary's approval.	TfNSW	TfNSW
16)	<p>Unless otherwise agreed to in writing by the Minister, the approval holder must publish each plan on the website within 15 business days of the date:</p> <ol style="list-style-type: none"> a. the plan is approved by the Planning Secretary; or b. a revised version of the plan is approved by the Planning Secretary. 	TfNSW	TfNSW
17)	The approval holder must keep all published plans required by these conditions on the website until the expiry date of this approval.	TfNSW	TfNSW
18)	The approval holder must exclude or redact sensitive ecological data from plans published on the website or otherwise provided to a member of the public.	TfNSW	TfNSW
19)	If sensitive ecological data is excluded or redacted from a plan, the approval holder must notify the department in writing what exclusions and redactions have been made in the version published on the website	TfNSW	TfNSW
Notification of Date of Commencement of the Action			
20)	The approval holder must notify the department electronically of the date of commencement of the action, within 5 business days of the commencement of the action.	TfNSW	TfNSW
21)	If the commencement of the action does not occur within 5 years from the date of this approval, then the approval holder must not commence the action without the prior written agreement of the Minister.	TfNSW	TfNSW
Compliance Records			
22)	The approval holder must maintain accurate and complete compliance records.	All	Section 11.7
23)	If the department makes a request in writing, the approval holder must provide electronic copies of compliance records to the department within the timeframe specified in the request.	TfNSW	TfNSW



	Note: Compliance records may be subject to audit by the department, or by an independent auditor in accordance with section 458 of the EPBC Act, and/or be used to verify compliance with the conditions. Summaries of the results of an audit may be published on the department's website or through the general media.		
24)	The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guidelines for biological survey and mapped data (Commonwealth of Australia 2018), or as otherwise specified by the Minister in writing.	All	Section 11.6
25)	The approval holder must ensure that any monitoring data (including sensitive ecological data), surveys, maps and other spatial and metadata required under the conditions of this approval are prepared in accordance with the Guide to providing maps and boundary data for EPBC Act projects (Commonwealth of Australia 2021), or as otherwise specified by the Minister in writing.	All	Section 11.6
26)	The approval holder must submit all monitoring data (including sensitive ecological data), surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the department within 12 months of the date of this approval.	TfNSW	TfNSW
Annual Compliance Reporting			
27)	The approval holder must prepare a compliance report for each 12-month period following the date of this approval, or as otherwise agreed to in writing by the Minister.	TfNSW	TfNSW
28)	Each compliance report must be consistent with the Annual Compliance Report Guidelines (Commonwealth of Australia 2014).	TfNSW	TfNSW
29)	Each compliance report must include: <ul style="list-style-type: none"> a. Accurate and complete details of compliance and any non-compliance with the conditions and the plans, and any incidents. b. One or more shapefile showing all clearing of any protected matters, and/or their habitat, undertaken within the 12-month period at the end of which that compliance report is prepared. c. A schedule of all plans in existence in relation to these conditions and accurate and complete details of how each plan is being implemented. 	TfNSW	TfNSW
30)	The approval holder must: <ul style="list-style-type: none"> a) Publish each compliance report on the website within 60 business days following the end of the 12-month period for which that compliance report is required. b) Notify the department electronically, within 5 business days of the date of publication, that a compliance report has been published on the website. c) Provide the weblink for the compliance report in the notification to the department. d) Keep all published compliance reports required by these conditions on the website until the expiry date of this approval. e) Exclude or redact sensitive ecological data from compliance reports published on the website or otherwise provided to a member of the public. f) If sensitive ecological data is excluded or redacted from the published version, submit the full compliance report to the department within 5 business days of its publication on the website and notify the department 	TfNSW	TfNSW



	<p>in writing what exclusions and redactions have been made in the version published on the website.</p> <p>Note: Compliance reports may be published on the department's website</p>		
Reporting Non-Compliance			
31)	The approval holder must notify the department electronically, within 2 business days of becoming aware of any incident and/or potential non-compliance and/or actual non-compliance with these conditions or commitments made in a plan.	TfNSW	TfNSW
32)	<p>The approval holder must specify in the notification:</p> <ul style="list-style-type: none"> a) Any condition or commitment made in a plan which has been or may have been breached. b) A short description of the incident and/or potential non-compliance and/or actual non-compliance. c) The location (including co-ordinates), date, and time of the incident and/or potential non-compliance and/or actual non-compliance. <p>Note: If the exact information cannot be provided, the approval holder must provide the best information available.</p>	TfNSW	TfNSW
33)	<p>The approval holder must provide to the department in writing, within 12 business days of becoming aware of any incident and/or potential non-compliance and/or actual non-compliance, the details of that incident and/or potential non-compliance and/or actual non-compliance with these conditions or commitments made in a plan. The approval holder must specify:</p> <ul style="list-style-type: none"> a) Any corrective action or investigation which the approval holder has already taken. b) The potential impacts of the incident and/or non-compliance and/or non-compliance. c) The method and timing of any corrective action that will be undertaken by the approval holder. 	TfNSW	TfNSW
Independent Audit			
34)	The approval holder must ensure that an independent audit of compliance with these conditions is conducted for every five-year period following the commencement of the action until this approval expires, unless otherwise specified in writing by the Minister.	TfNSW	TfNSW
35)	<p>For each independent audit, the approval holder must:</p> <ul style="list-style-type: none"> a) Provide the name and qualifications of the nominated independent auditor, the draft audit criteria, and proposed timeframe for submitting the audit report to the department prior to commencing the independent audit. b) Only commence the independent audit once the nominated independent auditor, audit criteria and timeframe for submitting the audit report have been approved in writing by the department. c) Submit the audit report to the department for approval within the timeframe specified and approved in writing by the department. d) Publish each audit report on the website within 15 business days of the date of the department's approval of the audit report. e) Keep every audit report published on the website until this approval expires. 	TfNSW	TfNSW
36)	Each audit report must report for the five-year period preceding that audit report.	TfNSW	TfNSW



37)	Each audit report must be completed to the satisfaction of the Minister and be consistent with the Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines (Commonwealth of Australia 2019).	TfNSW	TfNSW
Completion of the Action			
38)	The approval holder must notify the department electronically 60 business days prior to the expiry date of this approval, that the approval is due to expire.	TfNSW	TfNSW
39)	Within 20 business days after the completion of the action, and, in any event, before this approval expires, the approval holder must notify the department electronically of the date of completion of the action and provide completion data.	TfNSW	TfNSW
Changes to State Conditions			
40)	The approval holder must inform the department in writing within 2 business days of requesting any change to the NSW Approval conditions that may relate to protected matters.	TfNSW	TfNSW
41)	The approval holder must inform the department in writing within 5 business days of any approved changes made to the NSW Approval conditions that may relate to protected matters.	TfNSW	TfNSW



REVISED ENVIRONMENTAL MANAGEMENT MEASURES

The primary REMMs relevant to the development of this SEMP are listed in Table 5-3: Secondary REMMs relevant to this SEMP are listed in Appendix B. A cross reference is also included to indicate where the REMM is addressed in this SEMP or other project management documents.

Table B-13-3 REMMs for Site Establishment Works

REMM ID.	Condition Requirements	Document Reference
A1	<p>Air quality management measures will be incorporated into the CEMP. This will include:</p> <ul style="list-style-type: none"> a. Dust mitigation and suppression measures such as spraying or covering exposed surfaces, providing vehicle clean down areas, covering of loads, street cleaning, use of dust screens, maintenance of plant in accordance with manufacturer's instructions b. Methods to manage works during strong winds or other adverse weather conditions c. A progressive rehabilitation strategy for exposed surfaces. 	Section 9.6 (SE50, SE51, SE52 & SE53)
T1	<p>A Traffic Management Plan (TMP) will be prepared in accordance with Traffic Control at Work Sites - Technical Manual (Transport for NSW, 2020h). It will be implemented under the CEMP. The TMP will focus on maintaining general traffic flow, specifying appropriate site accesses, construction parking and construction traffic routes. The TMP will be prepared in consultation with National Parks and Wildlife Service, Randwick City Council and Sutherland Shire Council.</p>	Section 9.6 (SE7 & SE11)
T3	<p>Transport for NSW will continue to liaise with National Parks and Wildlife Services to support its delivery of additional car parking within the Kamay Botany Bay National Park at Kurnell prior to operations.</p>	Section 9.6 (SE6)
T6	<p>Construction worker parking along Anzac Parade at La Perouse will be avoided during peak periods (weekends). Consideration of a temporary parking facility at La Perouse will be considered during development of the TMP.</p>	Section 9.6 (SE10)
SN1	<p>A Construction Noise and Vibration Management Plan (NVMP) will be prepared and implemented as part of the CEMP. The plan will generally follow the approach of the Interim Construction Noise Guideline (NSW DECC, 2009) and provide details of construction management measures and procedures. The plan will include:</p> <ul style="list-style-type: none"> a. An Out of Hours Works Protocol and provision to cover working outside of the standard hours set by the Construction Noise and Vibration Strategy (ST-157/4.1, Transport for NSW, 2020j) b. Identify all potential significant noise and vibration generating activities c. Noise and vibration management measures such as restrictions on working hours, staging, placement and operation of work compounds, parking and storage areas, temporary noise barriers, haul road maintenance, equipment selection and controlling the location and use of vibration generating equipment d. A monitoring and reporting program to assess performance against relevant noise and vibration criteria e. Consultation arrangements with affected neighbours and sensitive receivers, including notification and complaint handling procedures f. Consultation with NSW EPA, Randwick City Council, Sutherland Shire Council and National Parks and Wildlife Service for preparation of the NVMP g. Contingency measures in the event of non-compliance with noise and vibration criteria. 	Section 9.6 (SE18 – SE24)
SN2	<p>A pre-construction building condition assessment of Aboriginal and non-Aboriginal heritage items within 70 metres of the construction boundary will be carried out by a suitably qualified person prior to construction. During construction, inspections of the construction activities and work areas will be undertaken to monitor and review the construction methodology and confirm the integrity of the nearby significant structural elements. For heritage items identified at risk during the pre-construction condition</p>	Section 9.6 (SE25)



	assessment, minimum safe working distances will be established and vibration monitoring be carried out prior to the commencement of construction and monitored throughout construction to identify any construction-related impacts. If impacts are detected, work in the area will stop and appropriate environmental management measures will be implemented such as using alternative construction techniques or installing protection structures in collaboration with a heritage consultant.	
SN3	Any noise or vibration affected sensitive receivers will be notified at least five days before starting work. The notification will include details of: <ul style="list-style-type: none"> a. Construction periods and working hours b. Contact information for project management staff c. Complaint and incident reporting d. How to obtain further information. This excludes emergency works which will be covered under the CLIP.	Section 9.6 (SE17)
MB2	A Construction Biodiversity Management Plan (BMP) will be prepared in accordance with the Biodiversity Assessment Method (NSW DPIE, 2020h). It will be implemented under the CEMP. The BMP will detail the measures and procedures to minimise and manage construction impacts on marine biodiversity. The BMP will include: <ul style="list-style-type: none"> a. Sensitive area maps that identify sensitive habitats, protection areas, no anchoring zones, and exclusion zones to protect seagrass and threatened species b. Define procedures addressing relevant matters specified in the NSW DPI Fisheries Policy and guidelines for fish habitat conservation and management (NSW Department of Primary Industries, 2013). c. Include measures to prevent and monitor: <ul style="list-style-type: none"> • Water pollution • Sediment disturbance during construction • Construction vessel/barge movements, anchoring, and shading • Impact on known Black Rockcod habitat where possible • Biosecurity risks • Vessel strike by maintaining safe distances and approaches as identified in section 2.3 and 2.5 of the Biodiversity Conservation Regulation 2017 and limiting speeds. d. Define and implement marine ecology induction to all workers during site inductions e. Consultation with DPI Fisheries, NSW Environment, Energy and Science Group, Randwick City Council, Sutherland Shire Council, National Parks and Wildlife Service for the preparation of the BMP. 	Section 9.6 (SE27)
MB3	Establish no anchoring zones to minimise impacts from anchor points within seagrass meadows of Posidonia Australis at Kurnell and La Perouse.	Section 9.6 (SE27)
B2	As a part of detailed design, opportunities to minimise disturbance of foreshore and forested habitats as a result of light spill are to be investigated. This will include: <ul style="list-style-type: none"> a. Minimising the number of proposed permanent lights and optimising their locations where possible so as to provide maximum setbacks to adjacent habitats b. Where lights cannot be avoided, use of lower impact globes, directional shields, timers, sensors or motion detectors. 	Section 9.6 (SE31 & SE33)
B3	Terrestrial biodiversity management measures will be included as part of the Construction Biodiversity Management Plan (BMP). As a minimum the BMP will include: <ul style="list-style-type: none"> a. Sensitive area maps that identify native vegetation, flora and fauna habitat, threatened species and endangered ecological communities b. Maps showing areas to be cleared and areas to be protected, including exclusion zones, protected habitat features (e.g. hollow-bearing trees), and areas for rehabilitation or re-establishment of native vegetation c. Site inductions and training to ensure awareness of requirements of the BMP and relevant statutory responsibilities. Site-specific training will be given to personnel when working in the vicinity of areas of identified biodiversity value that are to be protected. 	Section 9.6 (SE27, SE28 & SE29)



	<p>d. Requirements set out in the Roads and Traffic Authority (RTA) Landscape Guideline</p> <p>e. Procedures addressing relevant matters specified in the Biodiversity Guidelines - Protecting and managing biodiversity on RTA Projects (NSW Roads and Traffic Authority, 2011a) including but not limited to:</p> <ul style="list-style-type: none"> • Pre-clearing, including the outcomes of final flora and fauna species checks, establishment of exclusion zones and on-ground identification of specific habitat features to be retained (such as hollow-bearing trees) • Vegetation clearing and bush rock removal, including staged habitat removal and any specified seasonal limits on clearing activities • Fauna handling and unexpected threatened species finds • Rehabilitation, revegetation, re-use of soils, woody debris and bush rock, and other habitat management actions • Weed and pathogen management • Unexpected finds procedure. <p>f. Monitoring during construction and post-construction</p> <p>g. Adaptive management measures to be applied if monitoring indicates unexpected adverse impacts.</p>	
B4	<p>A consulting arborist is to carry out an assessment of all trees within the construction boundary that are proposed for retention in accordance with Australian Standard 4970: Protection of Trees on Development Sites. The arborist is to provide a report with recommendations on the viable retention of all native trees within the construction boundary of the mapped PCTs, and include recommendations for amending design or using alternate construction methods to reduce any impacts on retained trees.</p>	Section 9.6 (SE30 & SE34)
SW3	<p>A Soil and Water Management Plan (SWMP) will be prepared and implemented under the CEMP. The SWMP will:</p> <ol style="list-style-type: none"> a. Identify all reasonably foreseeable risks relating to soil erosion, soil contamination, asbestos, acid sulfate soils and water pollution associated with undertaking the activity b. Describe how these risks will be managed and minimised including the management of potential acid sulfate soils and potential contamination c. Include the required processes/procedures for excavation, handling, storage, and transport of sediment and arrangements for managing pollution risks associated with spillage or contamination. d. Consultation with NSW Environment Protection Authority (EPA), NSW Environment, Energy and Science Group, Sydney Water, Randwick City Council, Sutherland Shire Council and National Parks and Wildlife Service. 	Section 9.6 (SE47, SE48 & SE52)
SW5	<p>Equipment, plant and machinery refuelling and maintenance will be carried out in impervious bunded areas. Vessels and associated plant and equipment will be maintained and refueled at appropriate facilities offsite or adhere to industry standards, Port Authority NSW and pollution prevention regulations during refuelling, transfer, storage and handling of hazardous materials. Refuelling will always be attended. Machinery will be checked daily to ensure that there are no oil, fuel, or other liquid leaks.</p>	Section 9.6 (SE45 & SE49)
NAH3	<p>Non-Aboriginal heritage management measures will be included as part of the Construction Heritage Management Plan (HMP). The HMP will include:</p> <ol style="list-style-type: none"> a. Construction measures and procedures to minimise and manage impacts on non-Aboriginal cultural heritage b. Sensitive area maps that identify non-Aboriginal heritage values, culturally and archaeologically sensitive areas and constraints within the study area c. Identification of heritage protection zones and protection requirements for heritage items within and in the vicinity of the construction boundary d. An outline of the required archaeological management strategies e. A heritage register to document the location, condition, significance, storage requirements of any memorials, monuments and interpretive panels which need temporarily relocating and storing during construction including The Captain Cook 	Section 9.6 (SE54)



	<p>watering well, The Landing Place Memorial and interpretative panels on the extant wharf.</p> <p>f. Unexpected Heritage Items Procedure (NSW Roads and Maritime Services, 2015d)</p> <p>g. Consultation with National Parks and Wildlife Service, Heritage NSW, Randwick City Council and Sutherland Shire Council.</p>	
NAH6	Non-Aboriginal Heritage Awareness Inductions will be given to all workers during site inductions. This will ensure they are aware of their obligations under the NSW Heritage Act 1977 and best practice as outlined in The Burra Charter (Australia ICOMOS 2013). Updates will be provided based on stakeholder feedback and following any unexpected finds and the outcome of the ARD.	Section 9.6 (SE58)
AH6	A visual inspection of the potential rock engravings (Site 3, La Perouse [AHIMS ID 45-6-0650] and Site 4, La Perouse [AHIMS ID 45-6-0651]) will be undertaken before setting-up the ancillary facilities and starting construction.	Section 9.6 (SE55)
AH7	Establish exclusion zones for all registered AHIMS rock engraving sites within the construction boundary or directly adjacent and cover with geotextile fabric (or similar) before setting-up the ancillary facilities and creating the construction compound.	Section 9.6 (SE56)
AH8	Archaeological work method statements will be prepared prior to setting up ancillary facilities, construction compounds or construction works to prevent impact and preserve the integrity the rock engraving at La Perouse (AHIMS ID 45-6-0653). During excavation and subsurface works or any other identified high risk activities, archaeological supervision and vibration monitoring will be undertaken at the potential location of the rock engraving at La Perouse (AHIMS ID 45-6-0653). If the engraving is identified and/or the vibration levels would result in damage to the integrity of the sandstone structure, works must cease, the site protected and the construction methodology be reviewed in consultation with a heritage consultant to mitigate further impacts.	Section 9.6 (SE57)
AH9	Archaeological supervision will be undertaken during excavations below 400mm at Kurnell within the Foreshore Midden – Captain Cook’s Landing Place (AHIMS ID 52-3-0219). If archaeological material is identified, further archaeological investigations may be required following review and assessment of the archaeological resources identified.	Section 9.6 (SE59)
W1	<p>A Waste and Energy Management Plan (WEMP) will be prepared in accordance with the Environmental Procedure - Management of Wastes on Roads and Maritime Services Land (NSW Roads and Maritime Services, 2014). It will be implemented under the CEMP. The WEMP will include:</p> <p>a. Measures and controls to minimise the amount of waste</p> <p>b. Measures to store, test, handle, transport, recovery, reuse, dispose of waste. It will also address any recovered material imported to site</p> <p>c. Waste management classification measures</p> <p>d. Measures to ensure organic waste is covered and stored onsite to prevent birds being attracted to the area</p> <p>e. Measure to ensure no construction generated waste is placed in public or residential bins.</p> <p>f. Monitoring, record keeping and reporting, including any documentation management obligations arising from resource recovery exemptions</p> <p>g. Sampling and waste management measures in accordance with the Roads and Maritime Services Environmental Fact Sheet EFS-706 (NSW Roads and Maritime Services, 2015b)</p> <p>h. Measures to reuse and mulch cleared vegetation.</p>	Section 9.6 (SE60, SE62 & SE63)
W4	Onsite effluent will either be discharged to the local sewage system or temporarily stored in septic or portable facilities. These facilities will be of sufficient capacity and located away from environmentally sensitive areas such as waterways. The effluent will be regularly collected and disposed of to an appropriately licenced facility. Pit toilets will not be permitted.	Section 9.6 (SE64)
GG2	Where practicable and feasible, construction materials will be managed to:	Section 9.6 (SE69 – SE72)



- a. Maximise onsite materials reuse
- b. Reuse recycled aggregates
- c. Manage waste to maximise recycling and minimise the percentage sent to landfill
- d. Incorporate fly ash in concrete
- e. Procure prefabricated materials to eliminate offcuts onsite
- f. Reduce use of reinforcement bar/steel.



APPENDIX C: LAYOUT OF ANCILLARY FACILITIES

Proposed Construction Ancillary Facilities location and compound setup has been provided to TfNSW for review as the Kamay Ferry Wharves Site Compound Plan (KFW02-MCD-ALL-MB-PLN-000001). An overview of this plan is outlined below for reference only.

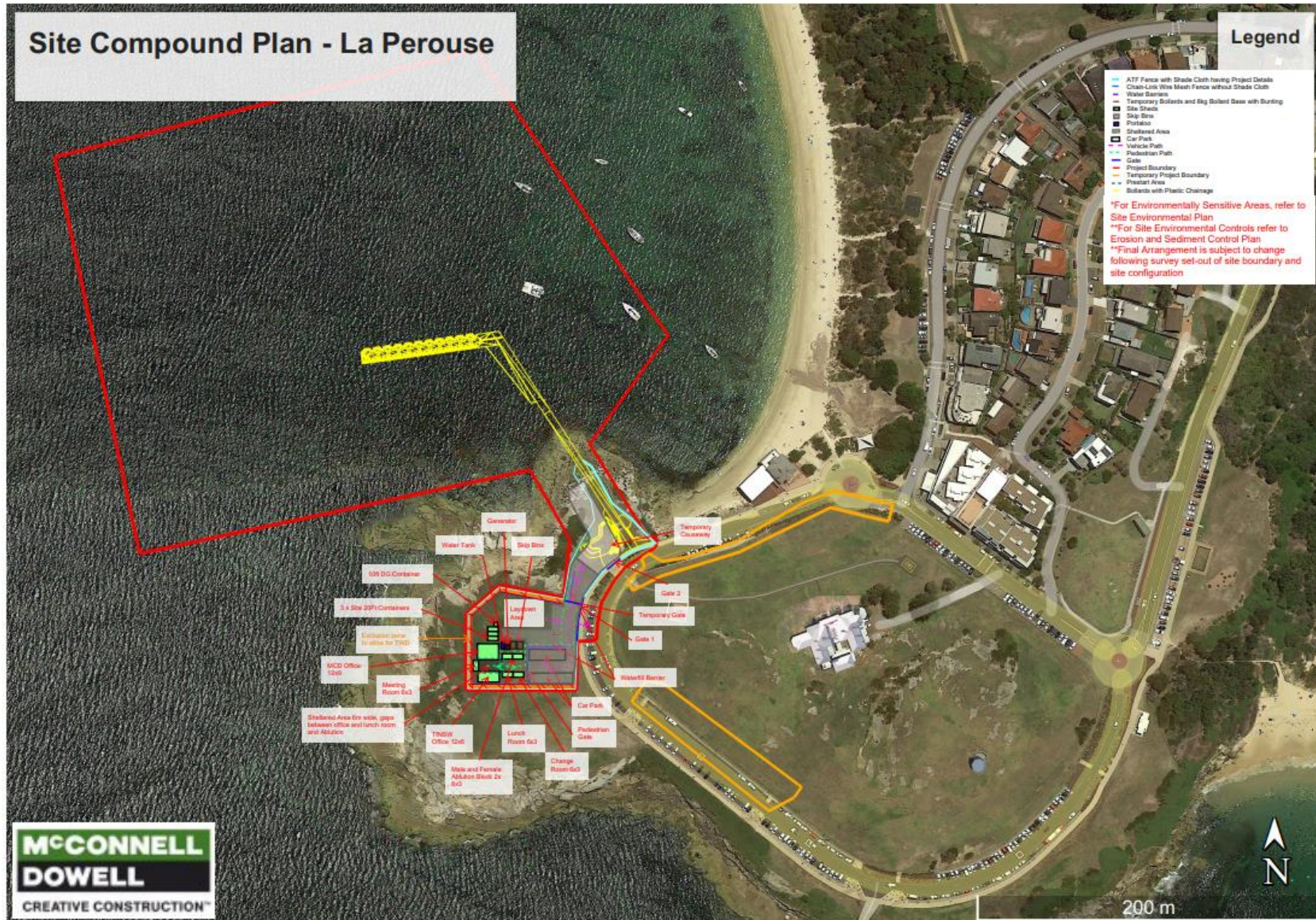


Figure C-13-1 Site Compound Plan - La Perouse

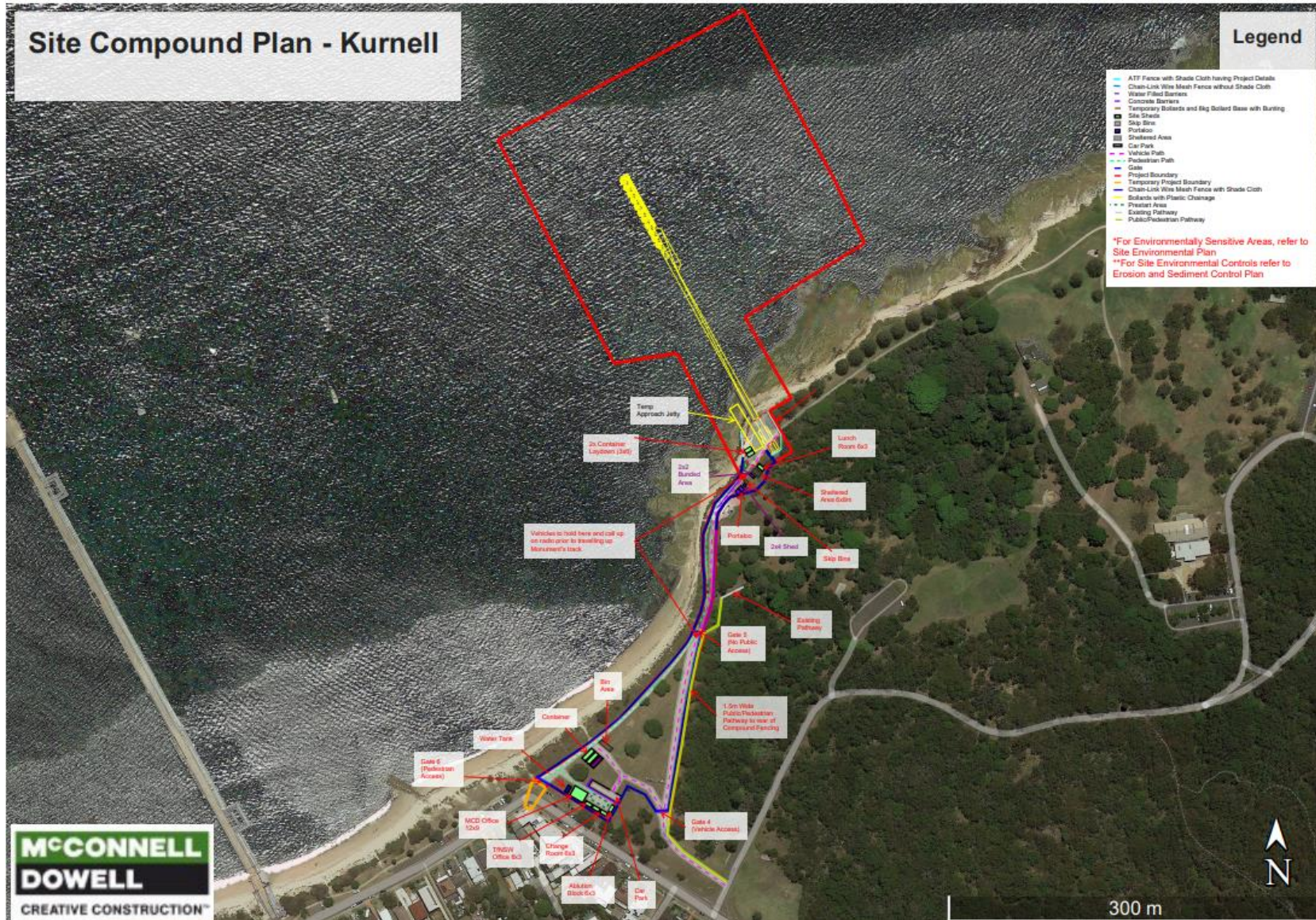


Figure C-13-2 Site Compound Plan - Kurnell



APPENDIX D: ENVIRONMENTAL RISK ASSESSMENT

An Environmental Risk Assessment workshop was held between McConnell Dowell and Transport for NSW on the 14th of September 2022. The workshop covered all activities for the project, those relating to site establishment have been included below.



Likelihood (L) 1 = Rare, 2 = Unlikely, 3 = Possible, 4 = Likely, 5 = Almost Certain							Consequence (C) A- Low, B- Moderate, C- Serious, D-Major, E-Critical													
Risk Rating (R)			LOW RISK Broadly acceptable - Manage by routine procedures		MODERATE RISK Tolerable - With identified controls fully implemented.		SERIOUS RISK Undesirable risk - do not commence activity.			MAJOR RISK Intolerable risk - do not commence activity.							CRITICAL RISK Intolerable risk - do not commence activity.			
Item No.	Work Area	Activity / Job Step	Hazards (Potential For Harm)	Risks (Unwanted Event)	Risk Source (Health Safety Environment)	System Controls	Primary Risk Assessment			Additional Controls	Hierarchy of Control						Residual Risk Assessment			
							Likelihood	Consequence	Risk Score		Elimination	Substitution	Isolation	Engineering	Administration	PPE	Likelihood	Consequence	Risk Score	
1.5	All areas	Site sheds/ crib rooms	Equipment failure, human error during operation	Chemicals / septic released to the marine environment	Environment	Site Establishment Management Plan (SEMP) Plant Management Plan Chemical Hydrocarbon Spill Procedure Site Establishment EWMS	Possible	Moderate	Moderate	Maintenance and inspections; self-bunded / temporary bunding; refuelling procedures for in situ refuelling. Emergency and Spill Response MP; Monitoring; Spill kits; hydrocarbon booms. Trained response personnel. Grey water tank on barge emptied onto sully barge and returned to shore for disposal			X	X	X		Unlikely	Moderate	Low	
1.6	Land based activities	Mobile equipment and fuel/oil storage (excavator, crane, trucks, generators, light vehicles) operating on foreshore	Equipment failure, human error during operation or refuelling of mobile/storage equipment	Hydrocarbons released to the terrestrial environment	Environment	Site Establishment Management Plan (SEMP) Plant Management Plan	Likely	Low	Low	Maintenance and inspections; spill trays; self-bunded / bunding; dedicated hydrocarbon/hazardous substances storage areas; refuelling procedures for in situ refuelling; refuelling on sealed surface. Emergency and Spill Response MP; Monitoring; Spill kits; Trained response personnel. Designated hazardous goods storage location on land. Biodegradable oils, hose sheathing to contain and protect hoses					X	X		Possible	Low	Low
2.2	Land based excavations	Operational activities on land / vehicle movements	Soil disturbance, relocation of seeds/weeds	Introduction/spreading of weed species	Environment	Site Establishment Management Plan (SEMP) Environmental Work Method Statement - Site Establishment Plant Management Plan	Possible	Moderate	Moderate	Inspection of machinery prior to mobilising to check for contaminants/weeds - machine to be confirmed clean prior to mobilisation				X	X		Possible	Moderate	Moderate	
2.3	All areas	Receival of imported materials and packaging / dunnage	Imported weeds, seeds, species or pathogens present in imported materials	Invasive species / pathogens introduced to environment	Environment	Site Establishment Management Plan (SEMP) Environmental Work Method Statement - Site Establishment	Possible	Moderate	Moderate	Inspection of goods received upon arrival to site to check for contaminants; quarantine area and procedure; inspection paperwork of major items fabricated / shipped from overseas (Government Gov requirements); use of reputable inspection and shipping agent				X	X		Unlikely	Moderate	Low	
3.2	All areas	Equipment and vehicle use	Fuel burning equipment	Excessive and non-compliant emissions	Environment	Site Establishment Management Plan (SEMP) Weekly Environmental Inspection	Possible	Low	Low	Cleaning operation prior to work commencing. Maintenance / periodic cleaning works where practicable. Removal of old or malfunctioning equipment				X	X		Possible	Low	Low	
3.4	Earthworks	excavation and loading into trucks, stockpiling, access roads	Dust	Community complaints, dust leaves site boundary	Environment	Site Establishment Management Plan (SEMP) Weekly Environmental Inspection	Likely	Low	Low	Water cart for dust suppression, schedule works in low winds, low fines material for haul roads / tracks					X		Possible	Low	Low	
6.1	Public Roads	Access into / out of site	Heavy vehicle movements	Disturbance of public vehicle movements	Environment	Site Establishment Management Plan (SEMP) Weekly Environmental Inspection	Possible	Moderate	Moderate	Loads covered Dissipation survey Inductions to ensure no parking in public parking spaces, truck idling in designated areas off site				X	X		Unlikely	Moderate	Low	
7.4	Compound barges	Portaloo	Weather conditions, human error, equipment failure	Loss of sewage / waste to the marine environment	Environment	Site Establishment Management Plan (SEMP) Site Environmental Plan	Possible	Moderate	Moderate	Secured appropriately. Regular maintenance/ pump out of tanks.		X	X	X			Unlikely	Moderate	Low	
7.6	Compounds / laydown areas	Site sheds/ crib rooms near service platform or upper manifold platform	Weather conditions, human error, equipment failure	Loss of general waste to land / marine environment	Environment	Site Establishment Management Plan (SEMP)	Possible	Moderate	Moderate	Waste receptacles with lids; secured appropriately; segregation of hazardous and non-hazardous wastes; Implementation of waste management plan. Order only what we need				X	X		Unlikely	Moderate	Low	
8.1	Site establishment, fencing, early works	Site fencing, vacuum trucks	Impact to Aboriginal and non-Aboriginal Heritage sites	Impact to Aboriginal and non-Aboriginal Heritage sites, loss of heritage value	Environment	Site Establishment Management Plan (SEMP)	Possible	Serious	High	Sensitive Areas Maps Establishing exclusion zones / delineation of heritage items / areas prior to works commencing in that area Photographic Archival Recording Program to be completed prior to site establishment. Unexpected Heritage Finds and Human Remains Procedure RAP involvement Undertake a visual inspection before commencement of construction of AHIMS Site # 45-0-0650 (Site 3 - La Perouse) and AHIMS Site # 45-0-0651 (Site 4 - La Perouse) and geotextile fabric (or similar) should be laid on the ground surface within the location of both sites were required. Archaeological Aboriginal Work Method Statements				X	X		Unlikely	Serious	Moderate	



APPENDIX E: SITE ENVIRONMENTAL PLAN

The following Site Environmental Plans have been developed for Site Establishment activities and will be updated as required to reflect site conditions and required controls.

- **KFW02-MCD-BPW-EN-ECM-000003 - Site Environmental Plan (SEP) - Kurnell (Site Establishment)**
- **KFW02-MCD-BPW-EN-ECM-000004 - Site Environmental Plan (SEP) - La Perouse (Site Establishment)**

SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – Kurnell – Site Establishment

KFW02-MCD-BPW-EN-ECM-000003 _Rev2



1. SPILLS

- Spills are to be cleaned up immediately with spill kits & reported to the Environment & Sustainability Lead
- Spill kits are to be available at each work location and fully stocked
- Marine spill kits to be readily available in the event of any spills on water



2. SOIL & EROSION

Refer to the Progressive Erosion and Sediment Control Plan for Kurnell (PESCP – KFW02-MCD-ALL-EN-DRG-000001) for all ERSED controls and requirements.

- Erosion and sediment controls must be in place before starting clearing or earthworks (or as soon as practical within the same shift) and stay in place (and maintained) until area is stabilised.



3. PLANT & EQUIPMENT

- Conduct pre-mobilisation and pre-start inspections each shift on all plant and equipment.
- Make sure drip trays or bunds are used for all stationary plant where practical.
- Refuelling must be carried out under supervised and controlled conditions and in accordance with the **Environmental Work Method Statement (EWMS) for Refueling**.



4. WATER & WASTEWATER

- Make sure waters are protected at all times.
- Dewatering is a controlled action that must be accompanied by a **Discharge Permit** from the Environment & Sustainability Lead (or delegate).
- All dewatering activities are to be supervised directly



5. ARCHAEOLOGY & HERITAGE

- Ensure all known heritage items are fully protected.
- If an unexpected heritage item is discovered on site, stop works immediately, report to supervisor and do not re-commence works in area until given the all clear
 - Establish a no-go zone & do not recommence works in the area until instructed by supervision



6. NOISE & VIBRATION

- Know where the nearest sensitive receptors are
- Keep loud and ongoing noise to a minimum
- Minimise vibration intensive activities where possible
- **Standard Construction Hours** are:
 - Monday – Friday 0700hrs – 1800hrs
 - Saturday – 0800hrs – 1300hrs
 - No Work on Sundays or Public Holidays
- All work outside of standard construction hours must be accompanied by an Out of Hours Work Approval (OOHWA)



7. HAZARDOUS MATERIALS

- Store hazardous substances in a secure bunded and segregated area and return them after use and understand the SDS requirements
- A SDS register is to be maintained on Site at all times.
- Storage of fuels and chemicals at least 50m from Botany Bay or drainage lines and on an impervious surface flatter than a 10% grade



8. DUST & EMISSIONS

- Make sure no dust, smoke or odour leaves the site boundaries - notify immediately if it does occur
- Reduce emissions from plant and equipment by turning them off when not in use
- Undertake dust suppression such as regularly watering all exposed surfaces, including access roads, using water sprays or sprinkler systems



9. FAUNA & FLORA

- Tree protection measures must be implemented to ensure the protection of all trees planned to be retained on site.
- Any vegetation removal must be accompanied by a **Vegetation Disturbance (Terrestrial) Permit**
- Prevent the spread or introduction of weeds, pests and diseases
- Report any fauna interactions to the Supervisors and Environmental and Sustainability Lead
- Sensitive Marine environments – **abide by No Anchoring Zones**



10. WASTE & RECYCLING

- Think about what you can reuse or recycle before disposing of it
- Unsure all waste segregated and placed into the correct bins and notify the supervisor if recycling is not available.
- Use recycled water or materials where possible and permitted.

General Notes

This SEP was developed to cover the following activities:

- Site Establishment

Revision 1 – 16/01/2023

Revision 2 – 18/04/2023

Environment & Sustainability Lead

Mitch Jones

Supervisor

Joe Petaccia

Project Manager

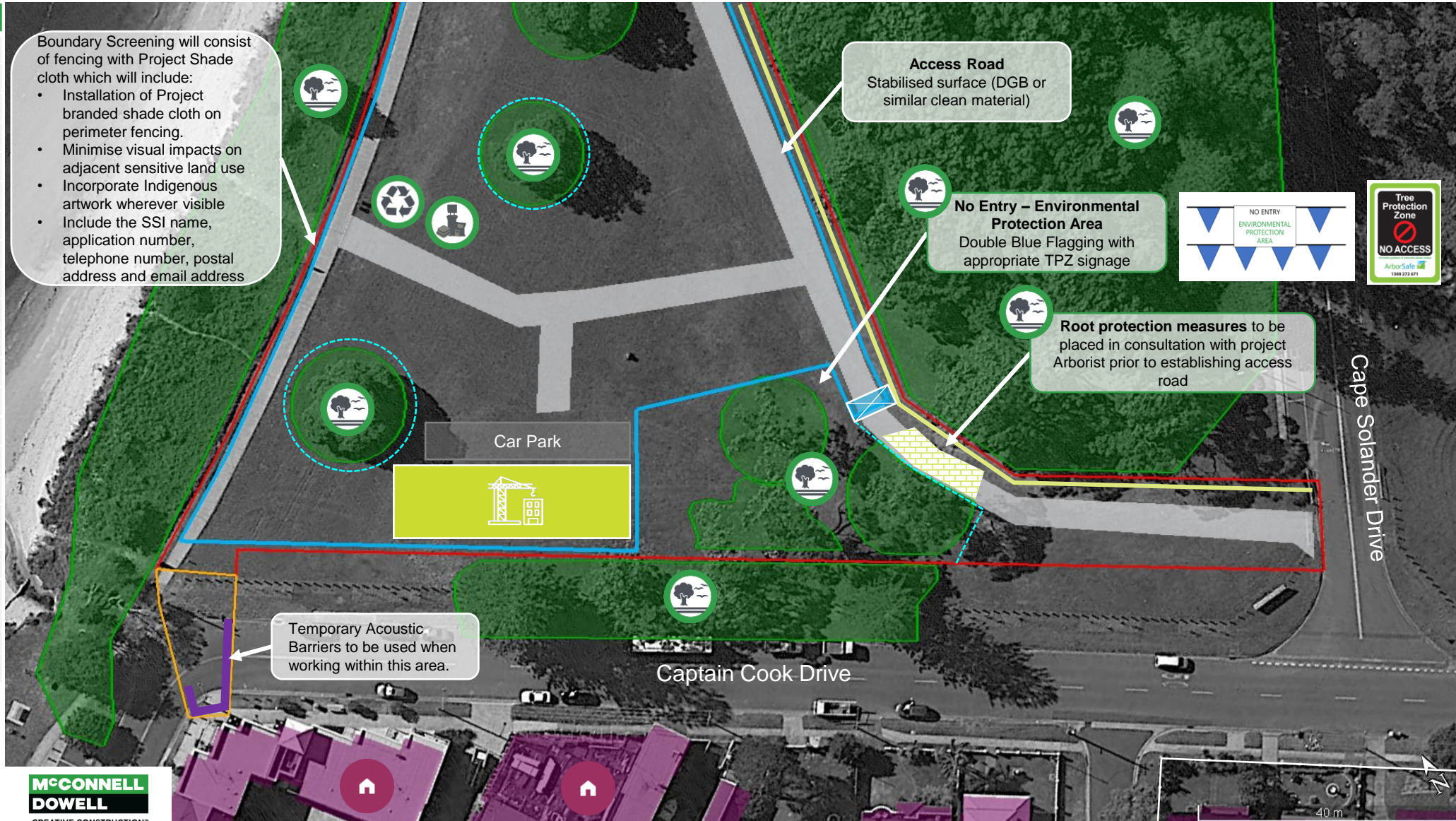
Adam Adamczewski

SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – Kurnell – Site Establishment

KFW02-MCD-BPW-EN-ECM-000003_Rev2

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (Generic Shade Cloth)
	Environmental Protection Area - Flagging
	5m No Anchoring Zone
	Pedestrian Access Track
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Heritage Area – Archeological Supervision Required
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item

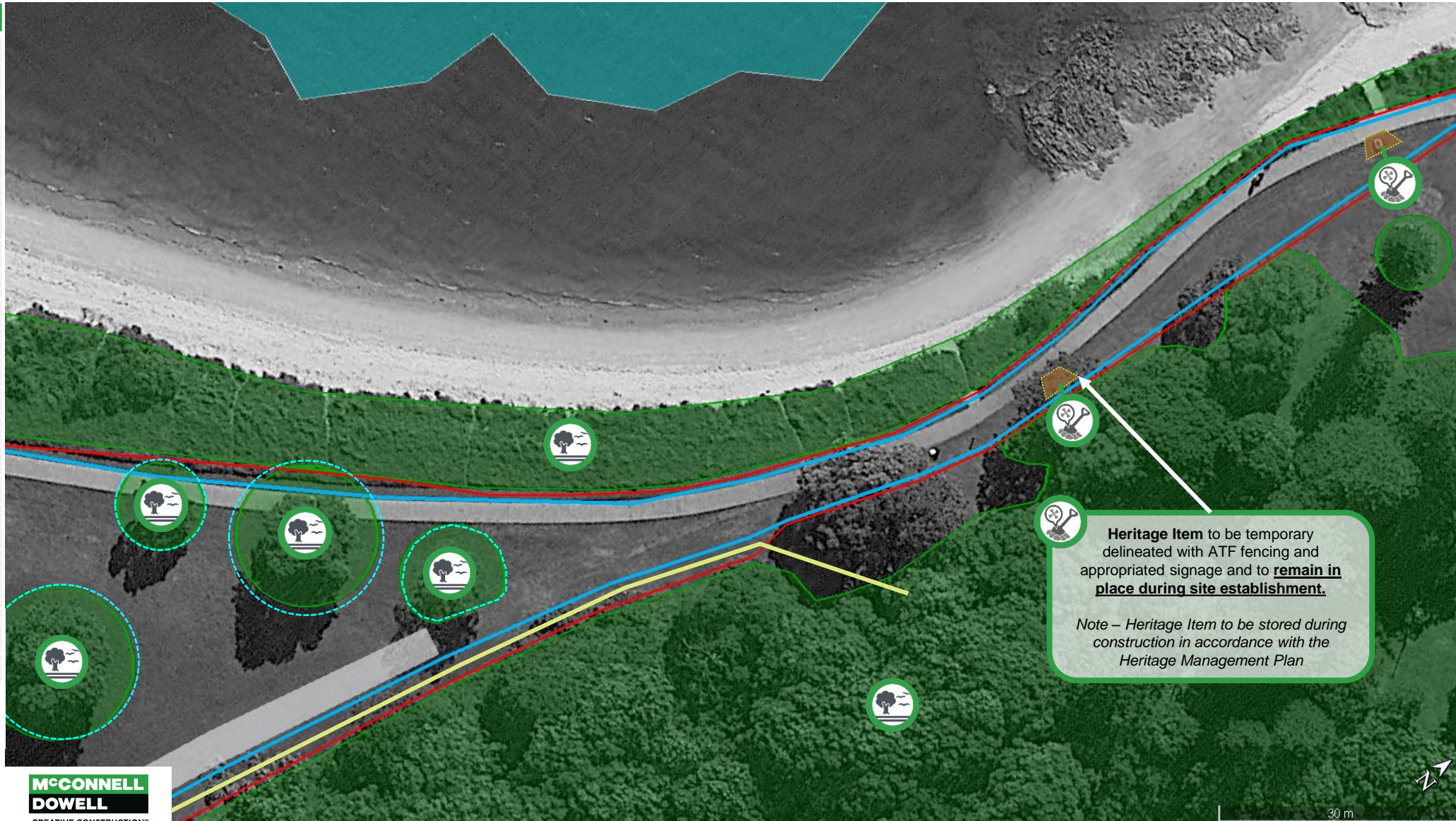


SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – Kurnell – Site Establishment

KFW02-MCD-BPW-EN-ECM-000003_Rev2

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (Generic Shade Cloth)
	Environmental Protection Area - Flagging
	5m No Anchoring Zone
	Pedestrian Access Track
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Heritage Area – Archeological Supervision Required
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item

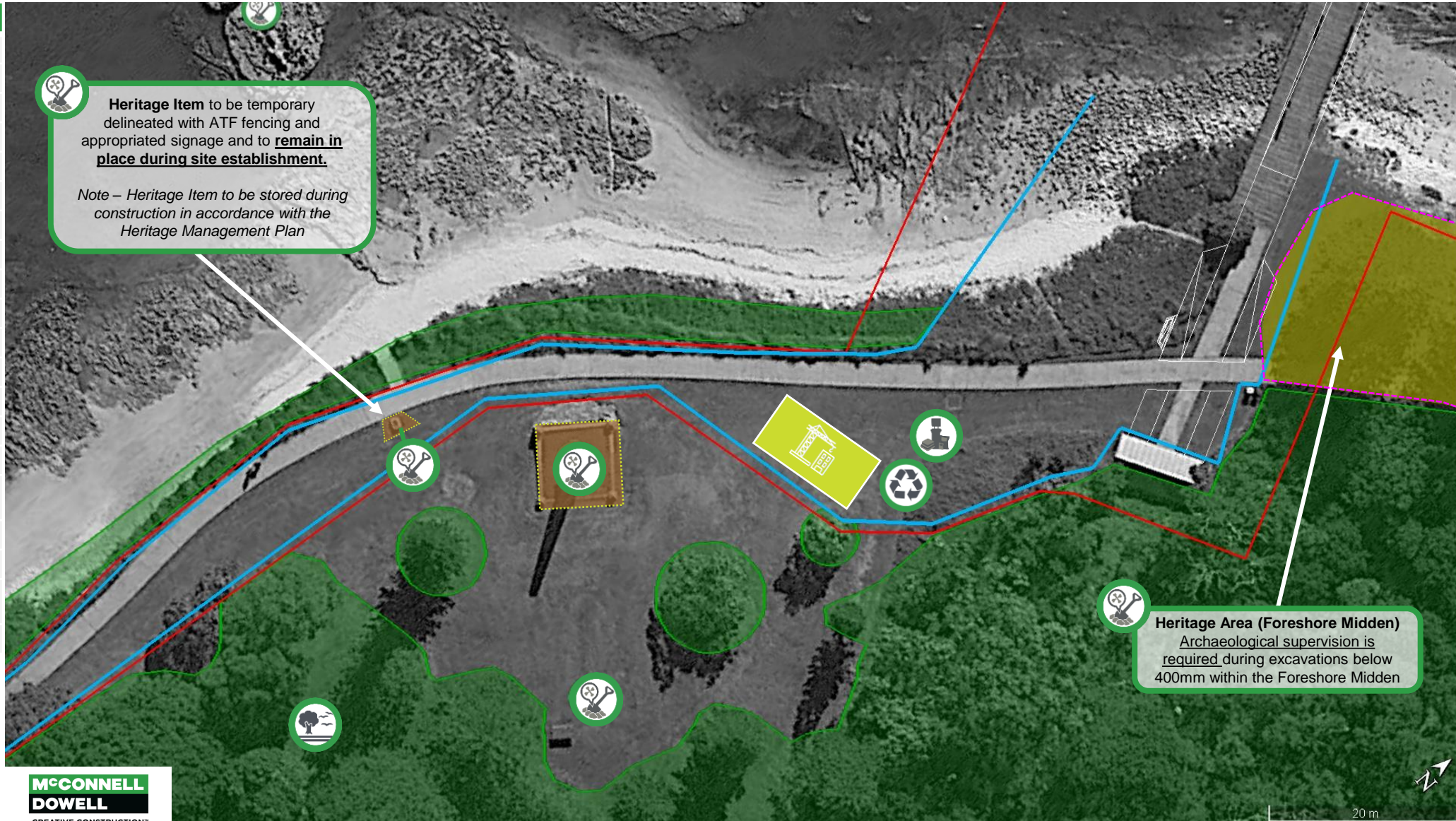


SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – Kurnell – Site Establishment

KFW02-MCD-BPW-EN-ECM-000003_Rev2

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (Generic Shade Cloth)
	Environmental Protection Area - Flagging
	5m No Anchoring Zone
	Access Gate
	Sensitive Receiver – Residential
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	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Heritage Area – Archeological Supervision Required
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item



Heritage Item to be temporary delineated with ATF fencing and appropriated signage and to **remain in place during site establishment.**

Note – Heritage Item to be stored during construction in accordance with the Heritage Management Plan

Heritage Area (Foreshore Midden)
Archaeological supervision is required during excavations below 400mm within the Foreshore Midden

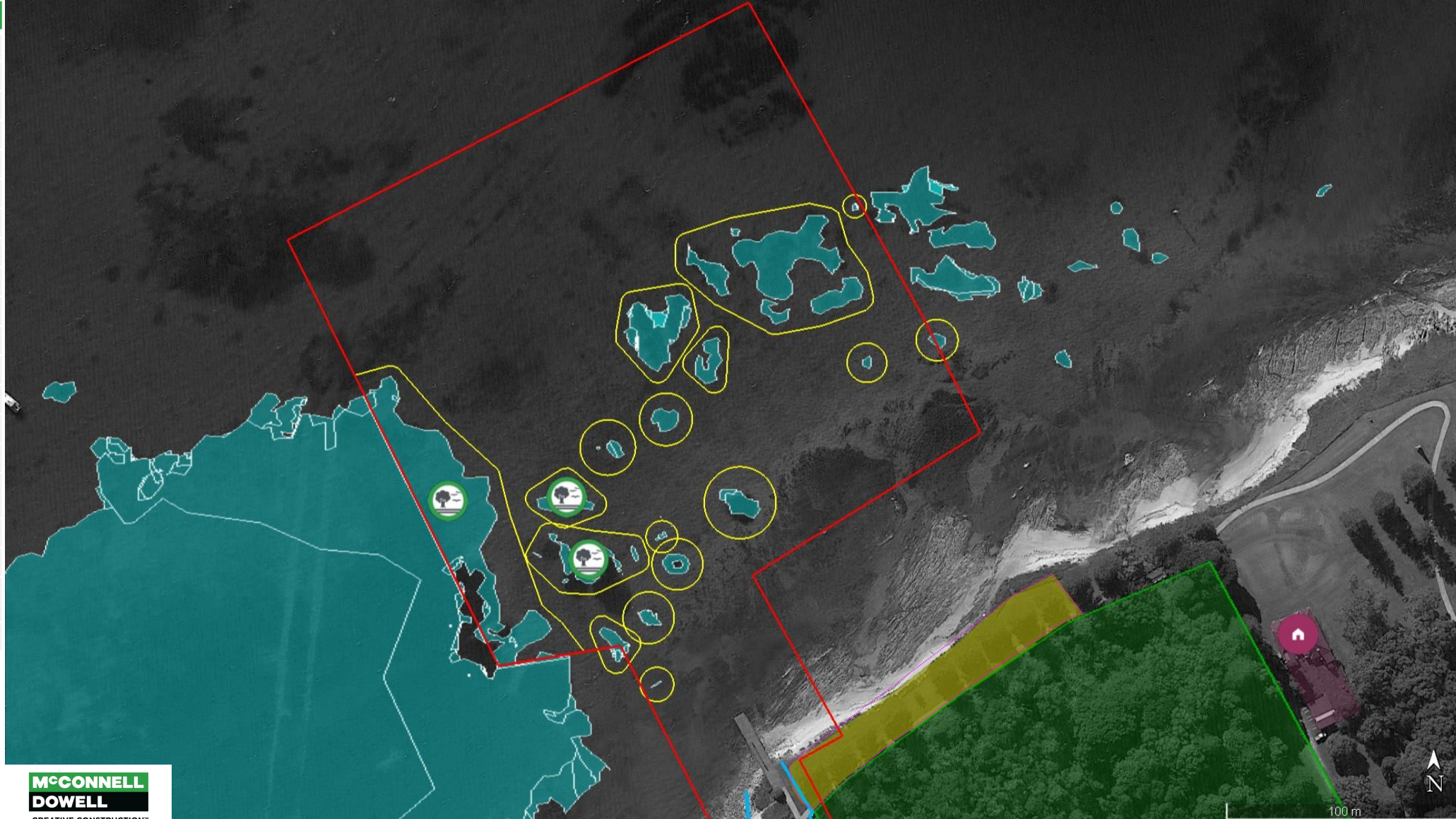


SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – Kurnell – Site Establishment

KFW02-MCD-BPW-EN-ECM-000003_Rev2

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (Generic Shade Cloth)
	Environmental Protection Area - Flagging
	5m No Anchoring Zone
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Heritage Area – Archeological Supervision Required
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item



SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1



1. SPILLS

- Spills are to be cleaned up immediately with spill kits & reported to the Environment & Sustainability Lead
- Spill kits are to be available at each work location and fully stocked
- Marine spill kits to be readily available in the event of any spills on water



2. SOIL & EROSION

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- Erosion and sediment controls must be in place before starting clearing or earthworks (or as soon as practical within the same shift) and stay in place (and maintained) until area is stabilised.



3. PLANT & EQUIPMENT

- Conduct pre-mobilisation and pre-start inspections each shift on all plant and equipment.
- Make sure drip trays or bunds are used for all stationary plant where practical.
- Refuelling must be carried out under supervised and controlled conditions and in accordance with the **Environmental Work Method Statement (EWMS) for Refueling**.



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- Make sure waters are protected at all times.
- Dewatering is a controlled action that must be accompanied by a **Discharge Permit** from the Environment & Sustainability Lead (or delegate).
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5. ARCHAEOLOGY & HERITAGE

- Ensure all known heritage items are fully protected.
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- Know where the nearest sensitive receptors are
- Keep loud and ongoing noise to a minimum
- Minimise vibration intensive activities where possible
- **Standard Construction Hours** are:
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7. HAZARDOUS MATERIALS

- Store hazardous substances in a secure bunded and segregated area and return them after use and understand the SDS requirements
- A SDS register is to be maintained on Site at all times.
- Storage of fuels and chemicals at least 50m from Botany Bay or drainage lines and on an impervious surface flatter than a 10% grade



8. DUST & EMISSIONS

- Make sure no dust, smoke or odour leaves the site boundaries - notify immediately if it does occur
- Reduce emissions from plant and equipment by turning them off when not in use
- Undertake dust suppression such as regularly watering all exposed surfaces, including access roads, using water sprays or sprinkler systems



9. FAUNA & FLORA

- Tree protection measures must be implemented to ensure the protection of all trees planned to be retained on site.
- Any vegetation removal must be accompanied by a **Clearing Permit**
- Prevent the spread or introduction of weeds, pests and diseases
- Report any fauna interactions to the Supervisors and Environmental and Sustainability Lead
- Sensitive Marine environments – **abide by No Anchoring Zones**



10. WASTE & RECYCLING

- Think about what you can reuse or recycle before disposing of it
- Unsure all waste segregated and placed into the correct bins and notify the supervisor if recycling is not available.
- Use recycled water or materials where possible and permitted.

General Notes

This SEP was developed to cover the following activities:

- Site Establishment

Revision 1 – 16/01/2023

Environment & Sustainability Lead

Mitch Jones

Supervisor

Colin Ford

Project Manager

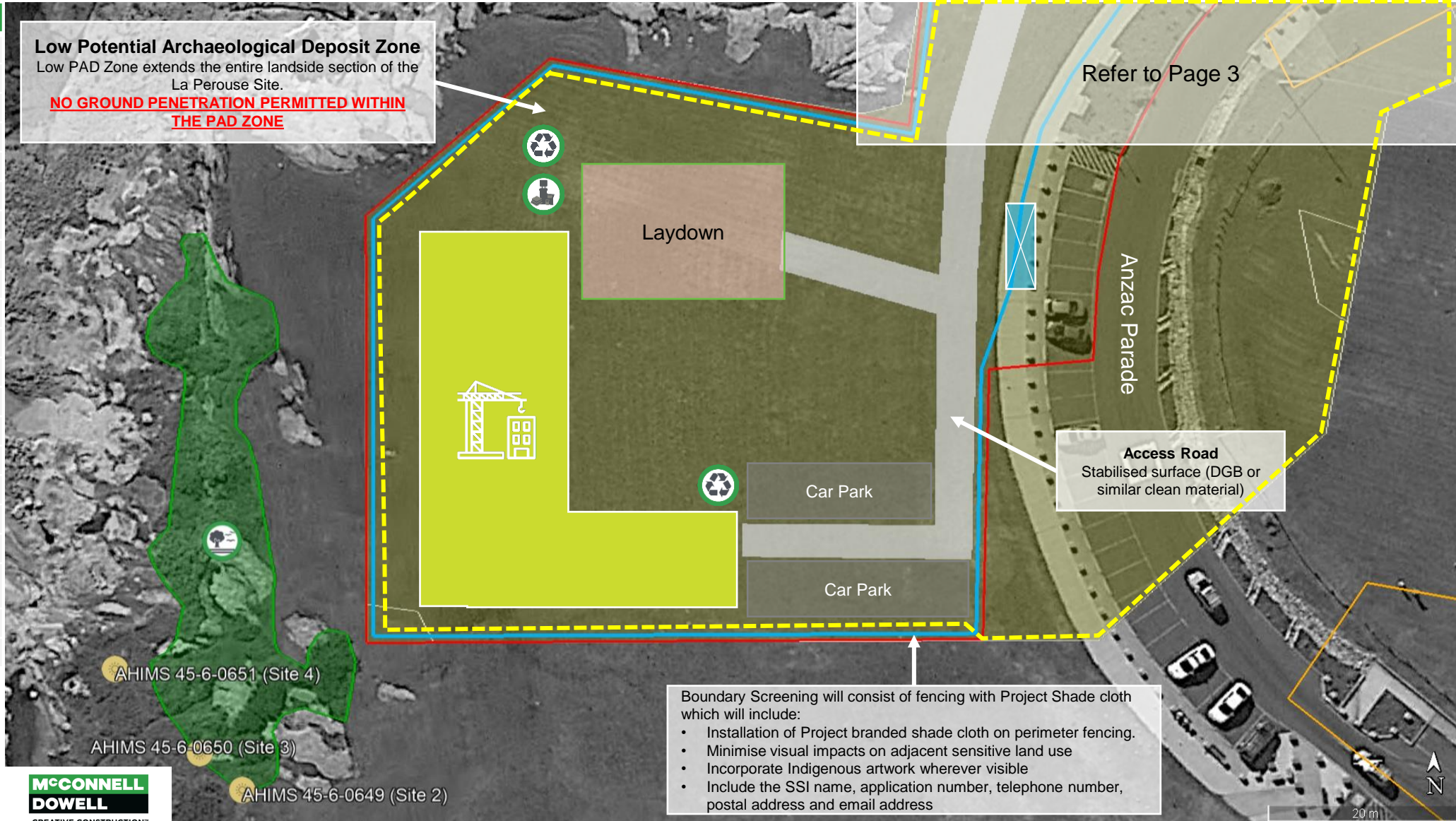
Adam Adamczewski

SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (No Shade Cloth)
	5m No Anchoring Zone
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Low PAD Zone – No Ground Penetration
	Laydown Area
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item
	Heritage – AHIMS Site

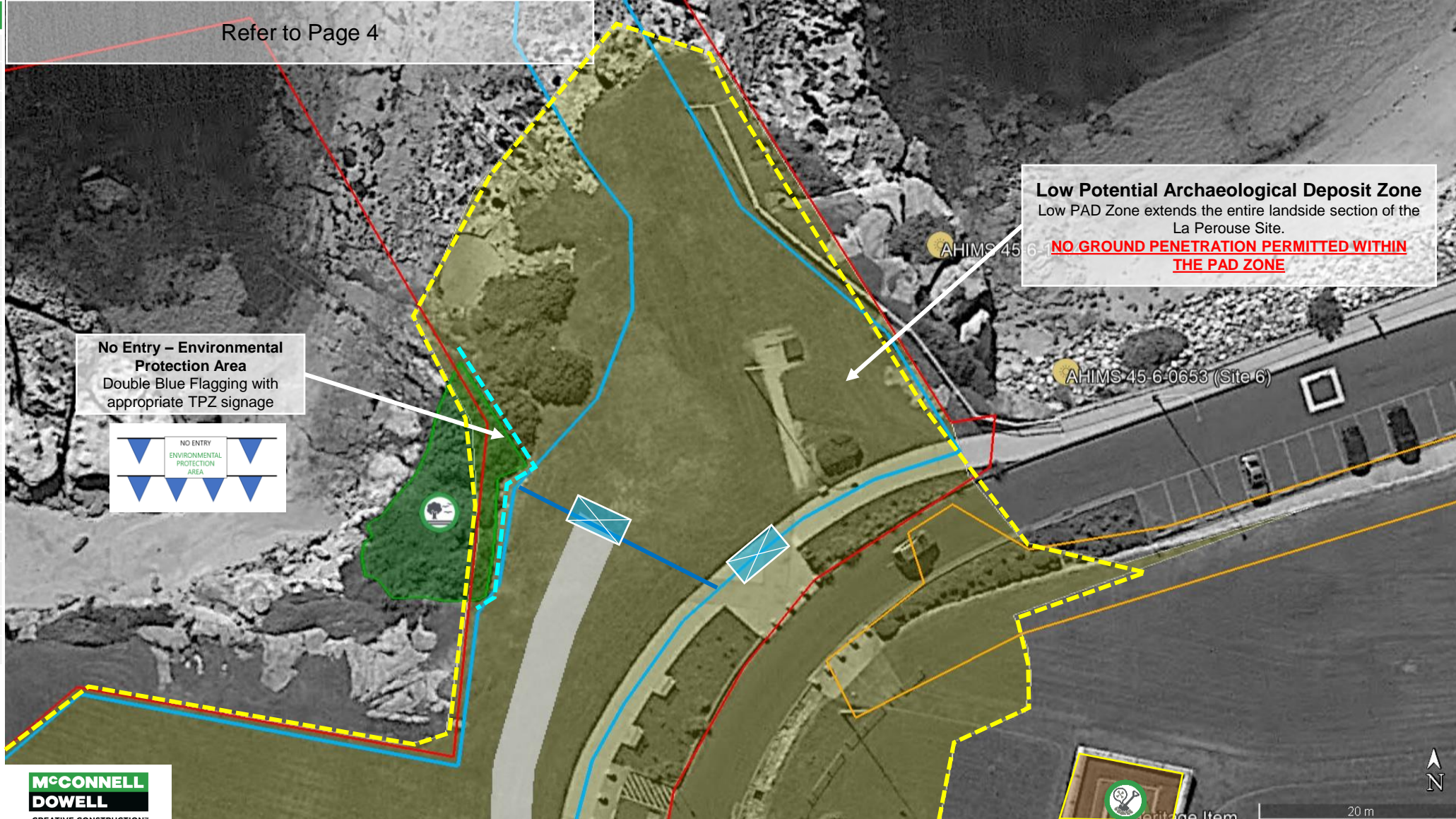


SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (No Shade Cloth)
	5m No Anchoring Zone
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (<i>Permit Required</i>)
	Heritage Item
	Low PAD Zone – No Ground Penetration
	Laydown Area
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item
	Heritage – AHIMS Site

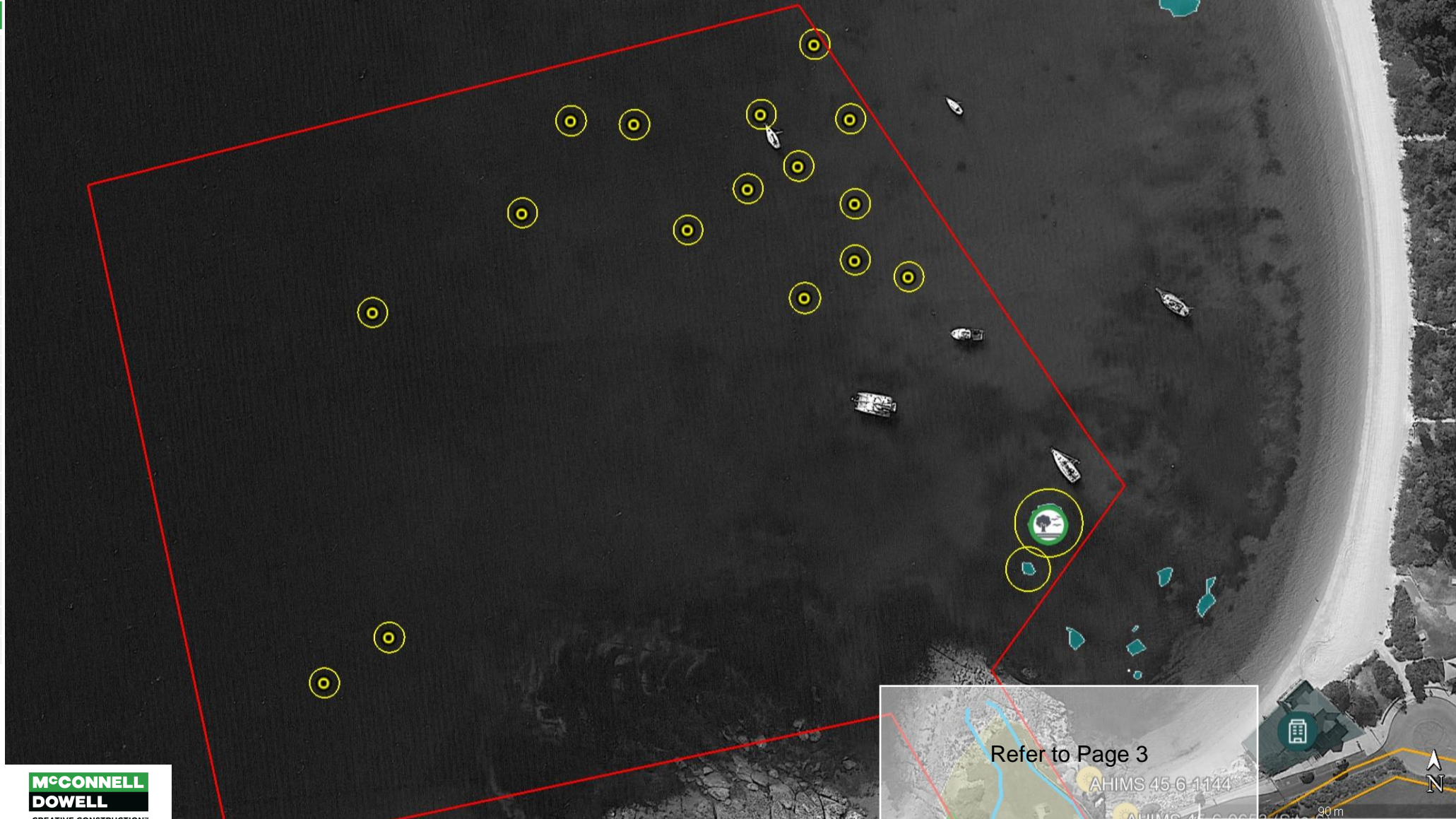


SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (No Shade Cloth)
	5m No Anchoring Zone
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Low PAD Zone – No Ground Penetration
	Laydown Area
	Skip Bins
	Spill Kits
	Environmental Protection Area – No Access
	Heritage Item
	Heritage – AHIMS Site



Refer to Page 3

AHIMS 45-6-1144

AHIMS 45-6-1144

90 m

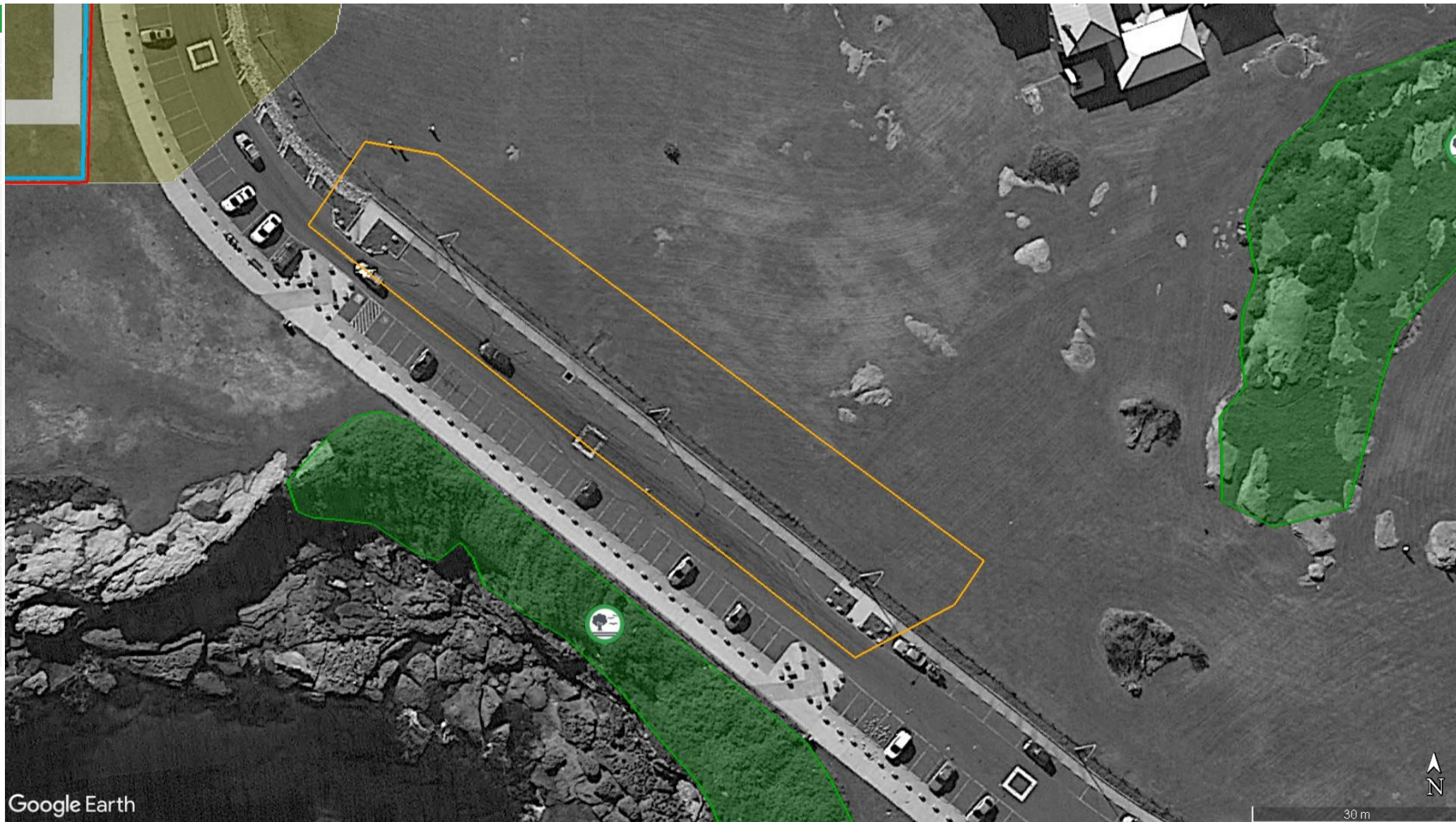
N

SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1

Icon	Description
	Project Boundary
	Project Boundary (Temporary)
	Fencing (Project Shade Cloth)
	Fencing (No Shade Cloth)
	5m No Anchoring Zone
	Access Gate
	Sensitive Receiver – Residential
	Sensitive Receiver – Commercial
	Construction Site Office / Shed
	Construction Vehicle Parking
	Protected Flora (Terrestrial)
	Protected Seagrass (Posidonia)
	Vegetation Clearing (Permit Required)
	Heritage Item
	Low PAD Zone – No Ground Penetration
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	Skip Bins
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	Environmental Protection Area – No Access
	Heritage Item
	Heritage – AHIMS Site



SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1

Icon	Description
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SITE ENVIRONMENTAL PLAN (SEP)

Kamay Ferry Wharves – La Perouse

KFW02-MCD-BPW-EN-ECM-000004_Rev1

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APPENDIX F: TRANSPORT FOR NSW ENVIRONMENTAL INCIDENT AND CLASSIFICATION PROCEDURE

[Transport for NSW Environmental Incident Procedure \(nsw.gov.au\)](https://nsw.gov.au)



APPENDIX G: MCCONNELL DOWELL ENVIRONMENTAL GREEN RULES

ENVIRONMENTAL GREEN RULES

These rules are in place to minimise our impact on the natural environment and local community. They MUST be followed at all times. Any issues can be discussed with your environmental team at any time.



1. Spills

Spill kits appropriate for the location must be fully stocked, ready and available for use near all work fronts. Report and clean up any spills.



6. Noise & Vibration

Know where the nearest neighbours and sensitive receptors are. Keep loud and ongoing noise to a minimum, and get permission to work outside of normal hours. Minimise vibration intensive activities where possible.



2. Soil & Erosion

Erosion and sediment controls must be in place before starting clearing or earthworks (or as soon as practical within the same shift) and stay in place (and maintained) until area is stabilised.



7. Hazardous Materials

Store hazardous substances in a secure bunded and segregated area. Return them after use and understand the SDS requirements. Any decanting must be carried out over a bunded area, and the containers must be properly labelled.



3. Plant & Equipment

Conduct pre-mobilisation- and pre-start inspections each shift on all plant and equipment. Make sure drip trays or bunds are used for all stationary plant where practical. Refuelling must be carried out under supervised and controlled conditions.



8. Dust & Emissions

Make sure no dust, smoke or odour leaves the site boundaries - notify immediately if it does occur. Reduce emissions from plant and equipment by turning them off when not in use.



4. Water & Wastewater

Make sure all waters are protected and know where nearby sumps drain to. No discharge to occur offsite unless it is within allowable limits and a water discharge permit is in place.



9. Fauna & Flora

Do not harm or kill animals. Protect all vegetation unless there is a vegetation disturbance permit in place. Prevent the spread or introduction of weeds, pests and diseases.



5. Archaeology & Heritage

Ensure all known heritage items are fully protected. Stop works, protect and notify immediately where a potential heritage site or object is found.



10. Waste and Recycling

Think about what you can reuse or recycle before disposing of it. Place waste in the correct bins and notify if recycling is not available. Use recycled water or materials where possible and permitted.



REF-HSEQ-ENV-GUID001-GEN-GRP REV3 30/JUN/2021





