

CONSTRUCTION BUSH FIRE MANAGEMENT PLAN

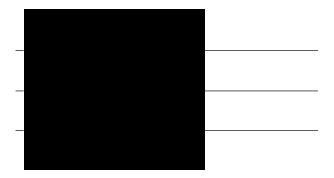
Moorebank Precinct East Stage 2 -SSD 7628



Moorebank Intermodal Precinct – Precinct East Stage 2 SSD 7628

Construction Bush Fire Management Plan

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Revisions

Revision	Date	Description	Prepared by	Approved by
001	05/02/2018	Draft for submission to ER		
002	03/04/2018	Update to exclude Bush fire Evacuation and Emergency Plan		
003	14/06/2018	Updated to address DPE comments on qualifications of author of this plan		
004	27/09/2018	Updated to reflect issue of Moorebank Precinct EPL and RfMA 002.		
005	21/12/2018	RfMA 007 – Update to compliance and non-compliance definitions and inclusion of cumulative impacts required by EPBC CoA (2011/6029)		
006	24/10/2019	 Minor updates associated with: RfMA 02A – Additional construction compounds to support warehouse construction RfMA 008 – MAUW construction compound RfMA 012 – Additional temporary construction access points RfMA 014 – Suitable spoil importation RfMA 015 – Moorebank Precinct EPL RfMA 019 – Clarification of definitions for Early Works and Construction Phase A activities RfMA 021 – New parking area 		
007	21/11/2019	Update to address ER comments; removal of Construction Phase A updates associated with RfMA 019 and minor updates associated with RfMA 016 – Temporary access time extension.		
008	20/12/2019	Updated to address ER comments, and the approved CTAMP-B		
009	16/01/2020	Updated to address ER comments		
010	19/06/2020	Minor updates associated with:SSD 7628-Mod 2 approval		
011	03/12/2024	 Updates associated with: SSD 7628 MOD5 RfMA-042 - Figure 3-1 of Moorebank Precinct East (LOGOS compound) RfMA-043 - Early works for MARW on MPE S2 Site RFMA-044 - Figure 3-1 of Moorebank Precinct East (MAUW compound) 		



Revision	Date	Description	Prepared by	Approved by
		 RfMA-045 - Figure 3-1 of Moorebank Precinct East (Temporary Storage Compound) 		
		 Administrative updates to reflect development status 		



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Acronyms and Definitions

Acronym / Term	Meaning
APZ	Asset Protection Zone
BEEP	Bush Fire Emergency and Evacuation Plan
CBMP	Construction Bush Fire Management Plan
CEMP	Construction Environmental Management Plan
CoCs	Conditions of Consent
СоА	Conditions of Approvals
СММ	Commonwealth Mitigation Measures
Contractor's CLM	Contractor's Community Liaison Manager
Contractor's CM	Contractor's Construction Manager
Contractor's EM	Contractor's Environmental Manager
Contractor's WM	Contractor's Works Package Manager
DPHI	NSW Department of Planning Housing and Infrastructure
EIS	Environmental Impact Statement
EPA	Environment Protection Authority
EPBC Act	Environmental Protection and Biodiversity Conservation Act 1999
EPL	Environment Protection Licence
ER	Environmental Representative
ESR	the Developer
FCMMs	Final Compilation of Mitigation Measures
IMEX	Import Export Terminal. Includes the following key components:
	 Truck processing, holding and loading areas - entrance and exit from Moorebank Avenue
	 Rail loading and container storage areas – installation of four rail sidings with adjacent container storage area serviced by manual handling equipment initially and overhead gantry cranes progressively.
	Administration facility and associated car parking- light vehicle access from Moorebank Avenue.
IMT facility	The IMT facility includes the construction of the following key components together comprising the Intermodal Terminal (IMT):
	Truck processing and loading areas



Acronym / Term	Meaning	
	Rail loading and container storage areas	
	Administration facility and associated car parking.	
IPA	Inner Protection Area	
MARW	Moorebank Avenue Realignment Works	
MPE	Moorebank Precinct East	
MPE Concept EIS	The Environmental Impact Statement prepared to support the application for approval of the MPE Concept Plan under the Environmental Planning and Assessment Act 1979.	
MPE Concept Plan Approval	MPE Concept Approval (MP 10_0193), granted by DPHI on 29 September 2014 for the development of an intermodal terminal facility including; a rail link connecting the site to the Southern Sydney Freight Line, an intermodal terminal, warehousing and distribution facilities and a freight village.	
MPE EPBC Approval	Commonwealth Approval (No. 2011/6229) granted in March 2014 under the Environment Protection and Biodiversity Conservation Act 1999, for the impact of the MPE Development on listed threatened species and communities (sections 18 and 18A of the EPBC Act) and Commonwealth land (sections 26 and 27A of the EPBC Act).	
MPE Development	The MPE Intermodal Terminal Facility as approved under the MPE Concept Approval (MP 10_0193) and the MPE EPBC Approval (2011/6229).	
MPE Site	Including the former DSNDC site and the land owned by ESR which is subject to the MPE Concept Plan Approval (Lot 1 DP1048263). The MPE Site does not include the rail corridor, which relates to the land on which the rail link is to be constructed.	
MPE Stage 1 Development	MPE Stage 1 Development (SSD -6766) for the development of the Intermodal terminal facility at Moorebank. This reference also includes associated conditions of approval and environmental management measures which form part of the documentation for the approval.	
MPE Stage 2 EIS	Moorebank Precinct East Stage 2 Proposal – Environmental Impact Statement publicly exhibited between 13 December 2016 and 24 February 2017.	
MPE Stage 2 RtS	Moorebank Precinct East Stage 2 Proposal – Response to Submissions Report (July 2017), prepared in response to the submissions received regarding the MPE Stage 2 Proposal.	
MPW	Moorebank Precinct West	
Non-compliance	An occurrence, set of circumstances, or development that results in a non- compliance or is non-compliant with Development Consent SSD 7628 Conditions of Consent or EPBC Act Approval (EPBC 2011/6229) Conditions of Approval but is not an incident	
Non-conformance	Observations or actions that are not in strict accordance with the CEMP and the aspect specific sub-plan	
OEH	Office of Environment and Heritage	



Acronym / Term	Meaning
Personnel	Construction Contractor and sub-contractor's staff
RtS	Response to Submissions
SIMTA	Sydney Intermodal Terminal Alliance
SSD	State significant development
The Development	Stage 2 of the MPE Concept Approval (MP 10_0193) approved as the MPE Stage 2 Development (SSD 7628) as consolidated. It involves the construction and operation of warehousing and distribution facilities on the MPE Site and upgrades to approximately 1.5 kilometres of Moorebank Avenue.



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1. Background

Approval for the construction and operation of Stage 2 of the Moorebank Precinct East (MPE) Development (State significant development (SSD 7628)), operated by ESR Australia & NZ (formerly LOGOS), which comprises the second stage of development under the MPE Concept Consent (MP10_0193) was received 31 January 2018.

This Construction Bush Fire Management Plan (CBMP) has been developed to manage bush fire risks during the construction phase of Stage 2 of the MPE Development ('the Development'). Within this plan, a strategy has been established to demonstrate the Construction Contractor's approach to the management of imported spoil. This CBMP addresses the relevant requirements of the Development Consent, including the Environmental Impact Statement (EIS), Response to Submissions (RtS) and Minister's Conditions of Consent (CoCs), and all applicable guidelines and standards specific to the management of bush fires during construction of the Development.

1.1. Development Ownership

In 2022, LOGOS joined the ESR group of companies and since August 2024, the LOGOS and ESR operations have been integrated to now operate under the name ESR Australia & NZ (ESR). The applicant/ approval holder entity remains unchanged at this stage until further notice and references to LOGOS and LOGOS authored documents and/or plans may continue and remains relevant where LOGOS and ESR are used interchangeably.

1.2. Introduction

The MPE Site, including the Development Site, is located approximately 27 km south-west of the Sydney Central Business District and approximately 26 km west of Port Botany and includes the former Defence National Storage and Distribution Centre site. The MPE Site is situated within the Liverpool Local Government Area, in Sydney's south west subregion, approximately 2.5 km from the Liverpool City Centre.

The MPE Development involves the development of an intermodal facility including warehouse and distribution facilities, freight village (ancillary site and operational services), stormwater, landscaping, servicing and associated works on the eastern side of Moorebank Avenue, Moorebank.

Stage 2 of the Development involves the construction and operation of warehousing and distribution facilities on the MPE Site and upgrades to approximately 1.5 km of Moorebank Avenue.

Key components of the Development include:

- Earthworks including the importation of 600,000m³ of fill and vegetation clearing
- Importation, stockpiling and placement of up to 250,000 m³ of suitable spoil (separate to the 600,000 m³ of imported clean general fill permitted for bulk earthworks)
- Approximately 300,000m² gross floor area of warehousing and ancillary offices
- Warehouse fit-out
- Freight village, 8000m² gross floor area of ancillary retail, commercial and light industrial land uses
- Internal road network and hardstand across the site
- Ancillary supporting infrastructure within the site, including:



- Stormwater, drainage and flooding infrastructure
- Utilities relocation/installation
- Fencing, signage, lighting, remediation and landscaping
- Moorebank Avenue upgrade including:
 - Raising by about two metres and some widening
 - Embankments and tie-ins to existing Moorebank Avenue road levels
 - Signalling and intersection works
- Intersection upgrades along Moorebank Avenue including:
 - Moorebank Avenue/MPE Stage 2 access
 - Moorebank Avenue/MPE Stage 1 northern access
 - Moorebank Avenue/MPE Stage 2 central access
 - Moorebank Precinct West (MPW) Southern Access/MPE Stage 2 southern emergency access.

The location of the Development Site is shown in Figure 1-1.

Moorebank Avenue Realignment Works (MARW) was approved by the NSW Minister for Planning on 14 October 2021 as State Significant Infrastructure (SSI-10053) (Infrastructure Approval) under Division 5.2 of the *Environmental Planning and Assessment Act* 1979 (EP&A Act).

It is also a controlled action under Section 130(1) and 133(1) of *the Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and was approved by the Minister for the Environment on 7 December 2021 (EPBC Approval 2020-8839).

The footprint of MARW, which generally runs along the northern and eastern boundary of the MPE Site, interfaces and encroaches on the MPE Site. To allow for the progression of construction works for MARW (in particular, the northern carriageway), some early preparatory works are required that are located within the MPE Site (where the project boundaries overlap). These works are undertaken under the MPE CEMP, with the MARW CEMP not being relevant to these works.



Bushfire Management Plan

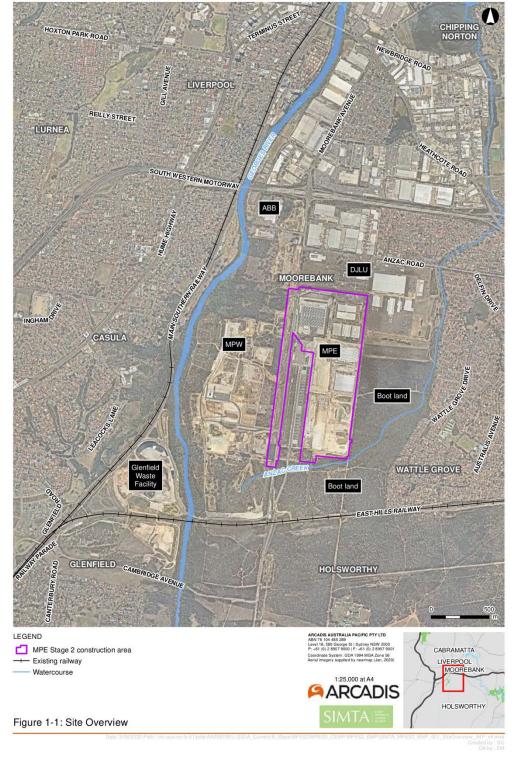


Figure 1-1 Site Location





1.3. Development Consent

The Development was assessed by the Department of Planning Housing and Infrastructure (DPHI, formerly Department of Planning and Environment,) under Part 4.1 (now Division 4.7 as of 1 March 2018) of the EP&A Act as SSD. The Planning Assessment Commission granted approval for the Development on 31 January 2018 and is subject to the Minister's CoCs (SSD 7628) as consolidated. The Development has been subsequently modified. The Development, including its potential impacts, consultation and proposed mitigation and management, is documented in the following suite of documents:

- SSD consent SSD 7628, as consolidated
- SSD partial consent (subdivision) SSD 7628
- Moorebank Precinct East Stage 2 Environmental Impact Statement (Arcadis Australia Pacific Pty Limited, December 2016)
- Moorebank Precinct East Stage 2 Response to Submissions (Arcadis Australia Pacific Pty Limited, July 2017)
- MPE EPBC Act Approval (No. 2011/6229) granted on March 2014
- MPW EPBC Act Approval (No. 2011/6086) granted on September 2016 (for Moorebank Avenue Upgrade Works only).

1.4. Development Delivery Phases

The Development construction period was anticipated to be up to five years, which is generally divided into three works phases. The terminology for the Development phases was developed from the EIS and RtS documentation in response to the language of the CoCs and the need to stage the delivery of the environmental management documentation required by the CoCs. Current terminology, and the equivalent terminology from the CoC and RtS are included in Table 1-1.

Development Delivery Phase	CoC A18 Phase Equivalent	MPE Stage 2 RtS Works Period Equivalent
Forby Works	Early works	Works Period A: Pre-construction
Early Works	Fill importation (to 60,000m ³)	Works Period B: Site preparation
	Early Works	Works Period A: Pre-construction
	Fill importation (to 60,000m ³)	Works Period B: Site preparation
Northwest Priority Area	Construction (to the extent described in Table 1 of the DPHI Approval Letter for Northwest Priority Works, dated 29 March 2018	Works Period E: Bulk earthworks (to the extent described in Table 1 of the DPHI Approval Letter for Northwest Priority Works, dated 29 March 2018)
		Works Period B: Site preparation
Construction Phase A	Fill importation	Works Period E: Bulk earthworks, drainage and utilities
	Construction	Works Period F: Construction and internal fit out of warehousing

Table 1-1 Development Delivery Phase Terminology



Development Delivery Phase	CoC A18 Phase Equivalent	MPE Stage 2 RtS Works Period Equivalent
		Works Period G: Miscellaneous construction works
	Fill importation Construction	Works Period C: Construction of Moorebank Avenue Diversion Road
Construction Phase B		Works Period D: Pavement and intersection works along Moorebank Avenue
		Works Period E: Bulk earthworks, drainage and utilities

Additional detail for the Development delivery phases is included in the Construction Environmental Management Plan (CEMP, Rev S, dated 13 December 2023).

1.5. Purpose and Application

This CBMP has been developed to address the CoCs and the FCMMs and is based on the Bush Fire Protection Assessment (Appendix U of the MPE Stage 2 EIS). This plan aims to demonstrate how bush fire risk will be managed during the construction phase of the Development.

This plan provides methods to measure and reduce bush fire risk to the Development by the Construction Contractor during construction activities, including all sub-contractors and consultant partners.

The specific requirements of the CoCs for compilation of the CBMP, as identified in the CoCs and FCMMs are identified in the Compliance Matrices in Appendix A.

The most recent, approved version of the CBMP will be implemented to manage the construction activities.



1.6. Objectives and Targets

Objectives and targets for the management of bush fire risk are outlined in Table 1-2.

Table 1-2 Objectives and Targets

Objective	Target	Timeframe	Accountability
Afford personnel onsite adequate protection from exposure to bush fire and minimise adverse impacts of bush fire	No death or injury to personnel during bush fire event	Duration of construction	Contractor's PM
Minimise adverse environmental consequences of bush fire			
Mitigate on-site landscaping contributing to precinct bush fire via installation of appropriate flora species and management devices (as per approved Landscape Plan)	No avoidable contribution to fire via landscaping fuel loads during bush fire event	Duration of construction	Contractor's EM
Compliance with all conditions of relevant approval conditions	No avoidable breach of management/mitigation measures in Section 3.6	Duration of construction	Contractor's EM

1.7. Consultation

This CBMP has been prepared in consultation with Australian Bush fire Protection Planners Pty Ltd and the NSW Rural Fire Services as outlined below in Table 1-3. Supplementary information to support the consultation undertaken is included in Appendix B.

Table 1-3 Consultation Summary

Agency	Date	Person Contacted	Comment	Status
	05/04/18	RFS representative	SIMTA representative contacted NSW RFS emailing the plan and requesting comment on the plan	Closed
NSW Rural Fire Services	10/05/18	SIMTA representative	NSW RFS indicated that they would not provide comment on the BMP and referred to their letter dated 20 September 2017 as a post response to submissions as part of the environmental assessment in which they did not recommend that a BMP be developed.	Closed



2. Environmental Management

2.1. Legal and Other Requirements

Table 2-1 details the legislation, planning instruments and guidelines considered during development of this plan. Further details concerning the legislation, planning instruments and guidelines identified below are provided in the Legislation Register within the CEMP (Appendix B).

Table 2-1 Legislation, Planning Instruments and Guidelines

Legislation	Description	Relevance to this CBMP
Environmental Planning and Assessment Act 1979	This Act establishes a system of environmental planning and assessment of development proposals for the State.	 Key sections of this Act that are relevant to this plan include, but are not limited to: Section 4.15 - General matters for consideration (previously Section 79C (1) prior to 1 March 2018) Section 4.14 - Consultation and development consent steps to be taken for development on bush fire prone land (previously Section 79BA prior to 1 March 2018).
Rural Fires Act 1997	This Act describes the specific requirements for development on land that has been declared as bush fire prone.	notify firefighting authorities
Planning for Bush Fire Protection 2006 – NSW RFS	Provides aims and objectives for development on bush fire prone land.	 Development applications on bush fire prone land must be accompanied by a Bush Fire Assessment Report demonstrating compliance with the aim and objectives of Planning for Bush Fire Protection 2006. In particular: The provision of Asset Protection Zones/Defendable Spaces to buildings located in bush fire prone areas Section 4.1.3(1) - Public road access compliance, with the exception of through- access. Section 4.1.4 - Water, electricity and gas compliance.



Legislation	Description	Relevance to this CBMP
Standards for Asset Protection Zones – NSW RFS	Provides a six-step guide to create and maintain an Asset Protection Zone (APZ) on the site.	Guides the establishment and maintenance of APZs under this plan.
Australian Standards AS3959-2009 – Construction in Bush fire Prone Areas	Covers the bush fire safety requirements of building in a bush fire prone area, as well as providing the methodology for calculating your bush fire attack level.	Identifies levels of bush fire attack and construction standards to buildings located in bush fire prone areas

2.1.1. Development Consent Compliance Matrices

Development consent compliance matrices are included in Appendix A.



2.2. Roles and Responsibilities

Roles and responsibilities associated with this CBMP are presented in Table 2-2.

Table 2-2 Roles and Responsibilities

Role	Responsibilities			
	Attend audit meetings and action results of any audit findings			
	Allocate resources to manage bush fire environmental issues			
	Oversee the implementation and maintenance of this CBMP			
	Endorse the CBMP			
	Provide support for the Contractor's EM			
Contractor's Works package Manager	 Undergo induction and training in environmental awareness specific to bush fire evacuation and evacuation 			
(Contractor's WM)	Communicate environmental requirements to suppliers and sub-contractors			
	Review audit corrective actions and take action as necessary to close out issues			
	 Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm 			
	 Participate in ongoing consultation with relevant regulatory agencies regarding hazard reduction. 			
	Communicating with all personnel and sub-contractors regarding compliance and conformance with this CBMP			
	Check and monitor the implementation of this CBMP			
	• Undergo induction and training in environmental awareness specific to bush fire evacuation and evacuation			
	 Identifying resources required for implementation of the CBMP 			
Contractor's Construction Manger	 Assist emergency services/personnel with safe access and egress to and from bush fire prone land 			
(Contractor's CM)	 Clearly sign and communicate emergency assembly point and evacuation routes to Site personnel 			
	 Organise and manage site plant, labour and temporary materials for bush fire evacuation and emergency 			
	Provide support for the Contractor's EM			
	 Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm 			
	Manage response actions to RFS fire danger rating and actual fire emergency.			
	Oversee the overall implementation of this CBMP			
Contractor's	Allocate sufficient resources for the implementation of this CBMP			
Environmental Manager (Contractor's EM)	Assist and guide the respective personnel to meet their responsibilities for bush fire evacuation and emergency response			
. ,	Develop environmental site induction and maintain a register of attendance			



Role	Responsibilities
	 Present and participate in toolbox meetings specific to bush fire evacuation and emergency
	 Manage environmental document control, reporting, inductions and training relating to bush fire emergency and evacuation
	 Oversee site monitoring, inspections and internal audits
	 Manage all sub-contractors and consultants with regards to environmental matters
	 Undergo induction and training in environmental awareness specific to bush fire management
	 Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm
	All relevant personnel should have an understanding and copy of this CBMP
	 Monitor weather conditions and fire alerts including from NSW RFS and BOM
	Provide and maintain firefighting equipment
	Co-ordinate bush fire emergency response.
	Provide site induction for staff including fire safety measures
	Assist with implementation of bush fire emergency response
	 Implement environmental controls on-site required foe bush fire emergency and evacuation
Site Supervisors	 Undergo induction and training in environmental awareness specific to bush fire management
	 Maintain emergency service access to bush fire prone land
	• Direct works to be performed in a more environmentally responsible manner that reduces impacts or stop works if there is a risk of environmental harm.
	Comply with the relevant Acts, Regulations and Standards relevant to this CBMP
	 Comply with the policies and procedures relevant to this CBMP
All Personnel	• Take all feasible and reasonable steps to maintain compliance and conformance with the requirements of this CBMP
	Undertake relevant training to implement the requirements of this CBMP

2.3. Training

Training will be undertaken in accordance with Section 2.7 of the CEMP. The contractor will provide all employees with environmental induction / training relevant to this CBMP to make them aware of their responsibilities and when carrying out the work.

As a minimum the induction will include the following:

- Familiarisation with this plan and the Bush Fire Emergency and Evacuation Plan (BEEP)
- Location of firefighting equipment
- Fire safety such as fire management practices, emergency responses and procedures



• Potential ignition sources and subsequent risks

Toolbox meetings will also be undertaken, as and when required.

Competency training will be provided by the Construction Contractor as required and may include a certification, vocational qualification or a competency assessment.

Records of all training are to be filed in accordance with the document control system outlined in the CEMP.

2.4. Incident Response

Incidents will be classified and notified in accordance with Section 2.8 of the CEMP.



3. Implementation

3.1. Existing Environment

3.1.1. Construction Facilities

Temporary construction compounds will be required to support construction of the Development. The locations of these compounds are indicative and subject to confirmation by the construction contractor. Two primary construction compounds were identified in the MPE Stage 2 EIS, being:

- Moorebank Avenue Compound A (located on the MPW Site)
- Moorebank Avenue Compound B (located on the MPE Site).

The location of these compounds and the internal road network is shown in Figure 3-1.



Construction Bush Fire Management Plan December 2024



Figure 3-1 Construction Compounds and Internal Road Network



3.1.2. Moorebank Avenue Compound A

The Moorebank Avenue Compound will be located on the western side of Moorebank Avenue, immediately south of Bapaume Road. Access will be directly off Bapaume Road.

The Moorebank Avenue Compound will include:

- Site offices
- Car parking
- Amenities block
- Equipment storage and laydown areas.

Materials, such as pre-cast culverts, will be temporarily stored within the compound area on occasion. The entrance to this compound will be generally at the location of the existing intersection off Moorebank Avenue.

Access and egress to this compound for light vehicles will be via a left or right turn from Moorebank Avenue into Bapaume Road. Heavy vehicle access will be via a left turn from Moorebank Avenue into Bapaume Road. Heavy vehicles accessing the compound will travel southbound along Moorebank Avenue, will turn right into Chatham Avenue, turn around within the MPW site, turn left from Chatham Avenue (northbound) onto Moorebank Avenue and turn left into Bapaume Road.

3.1.3. Moorebank Avenue Compound B

The Moorebank Avenue Compound B will be located on the eastern side of Moorebank Avenue at the MPE 1 IMEX terminal.

The Moorebank Avenue Compound B will include:

- Site offices
- Car parking
- Amenities block
- Equipment storage and laydown areas.

Access and egress to this compound for light and heavy vehicles will be via a left or right turn from Moorebank Avenue into the IMEX Terminal main access point.

3.2. Bush fire Rating

The MPE Stage 2 EIS identified construction as having a low bush fire risk, with the Development more likely to be at risk from a bush fire rather than presenting as a potential ignition source for a bush fire. Bush fire risk is most likely to arise from the large area of native vegetation contained on the Commonwealth land adjoining the Development to the east and south. This vegetation is mapped as 'Vegetation Category 1' bush fire prone land (Liverpool City Council 2014) (see Figure 3-2).

Table 3-1 provides a summary of the bush fire threat and hazard ratings for the site. Information obtained from the Bush fire Protection Assessment for the Moorebank Precinct East Project Stage 2, Moorebank Avenue, Moorebank (Australian Bush fire Protection Planners 2016).



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Table 3-1 Summary of Bush fire Threat and Hazard for the Site

Aspect	Vegetation Within 140 m of the Site	Vegetation Index Score	Slope Index Score	Bush fire Hazard Score	Bush fire Hazard Rating	Bush fire Threat	Explanation
North	Managed curtilage	Nil	Nil	0	N / A	N / A	The north of the site is developed with no unmanaged vegetation
East	Dry Sclerophyll Low Open Forest	2.8	2.0	5.6	High	High	Large extents of unmanaged vegetation and a fire path under prevailing north east winds
South	Dry Sclerophyll Low Open Forest	2.8	2.0	5.6	High	Moderate	Fire path under south-east and south-westerly winds
West	Managed curtilage	Nil			Nil	0	The west of the site is developed with no unmanaged vegetation



Construction Bush Fire Management Plan December 2024

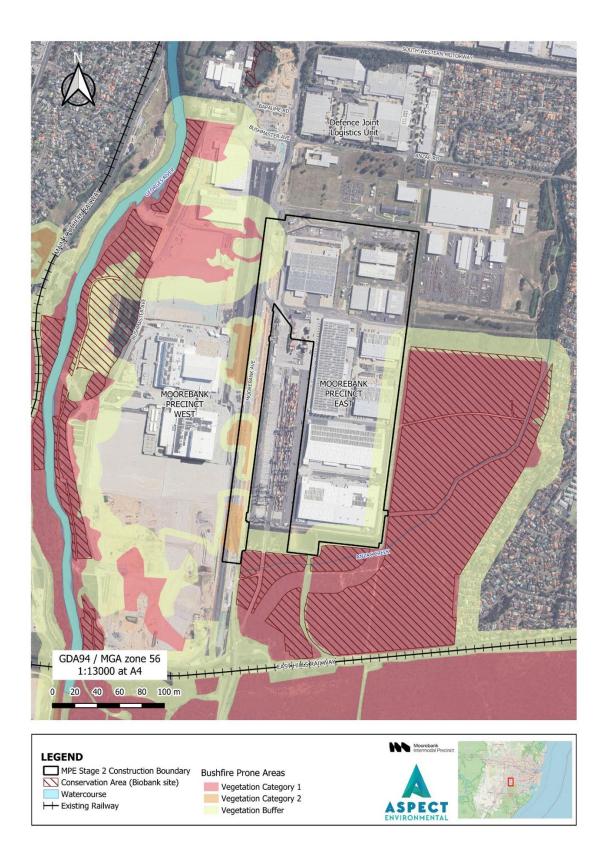


Figure 3-2 Certified Liverpool Bush Fire Prone Land Map



3.3. Emergency Response

Bush fire alert levels will be based on National Fire Danger Rating advice, available through the NSW Rural Fire Service (<u>http://www.rfs.nsw.gov.au/fire-information/fdr-and-tobans</u>).

The Bureau of Meteorology (BOM) also issues fire weather warnings when weather conditions are conducive to the spread of dangerous bush fires. Warnings are generally issued within 24 hours of the potential onset of hazardous conditions. Warnings are also broadcast on radio and television. However, the Bureau of Meteorology does not have the power to declare a total fire ban. This responsibility resides with the NSW RFS.

The closest Fire and Rescue NSW station is located on Anzac Road, Moorebank, approximately 1.2 km from the construction site access point. The second closest is located on Cartwright Avenue, Busby, approximately 7.6 km from the construction site access point.

During conditions of bush fire the initial response of all site personnel will be to relocate onsite (shelter), beyond the reach of bush fire, to the nominated bush fire emergency assembly areas. Each construction compound will have their own assembly point location shown in Figure 3-3. In the event that an assembly point is deemed unsafe by the Chief Warden, the Chief Warden would arrange an alternative assembly point (i.e. an assembly point at another construction compound).

Where it is deemed unsafe for staff to remain sheltered onsite at the assembly points, staff will be instructed to individually relocate to their own personal refuge (personal residences). Staff will be responsible for their own transport, and it is advised that staff travel 800 m (2 minutes) north towards the intersection of Moorebank Avenue and the M5 Motorway (South-West Motorway) when exiting the site from the construction site access point.

The M5 Motorway provides the main road link between the site, and the key employment and industrial areas within Sydney's West and South-Western subregions, the Sydney orbital network and the National Road Network. The M5 connects with the M7 Motorway to the west, providing access to the Greater Metropolitan Region and the NSW road network. Similarly, the M5 is the principal connection to Sydney's north and north-east via the Hume Highway.

A summary of bush fire response actions is provided in Table 3-2.

Response Item	Action	Responsibility
Monitor	 Monitor daily weather / fire danger rating (Low Moderate, High) 	Contractor's EM
RFS fire danger rating - Very High, Severe, Extreme	 Increase level of alert, prepare for activation of BEEP Notify all on-site supervisors of fire danger rating Prepare for activation of bush fire emergency response procedures 	Contractor's CM

Table 3-2 Fire Danger Rating Alert and Activation Levels



	 Monitor Bureau of Meteorology (BOM) website for fire weather warnings 	
	Increase level of alert, prepare for activation of BEEP	
	 Notify all on-site supervisors of fire danger rating 	
	 Prepare for activation of bush fire emergency response procedures 	
RFS fire danger rating – Catastrophic	 Monitor Bureau of Meteorology (BOM) website for fire weather warnings 	Contractor's CM
OR Total Fire Ban declared	 Cease all hot works (unless permitted through Total Fire Bar Exemption) 	Site Supervisor
	 Move plant and equipment out of bush fire prone land / vegetation buffer 	
	Close site to external visitors	
	Alert emergency services	
	Close site to external visitors	
	Immediately notify all personnel of the activation of bush fire emergency response procedures	
ACTIVATION Bush fire imminent or	Mobilise site personnel to designated emergency assembly area/evacuation assembly area	Contractor's CM
bush fire present	 Arrange for staff to evacuate the site in personal vehicles from the site access point 	Site Supervisor
	All persons are to be accounted for prior to departure	
	 Advise the local emergency service that the all persons have been evacuated)

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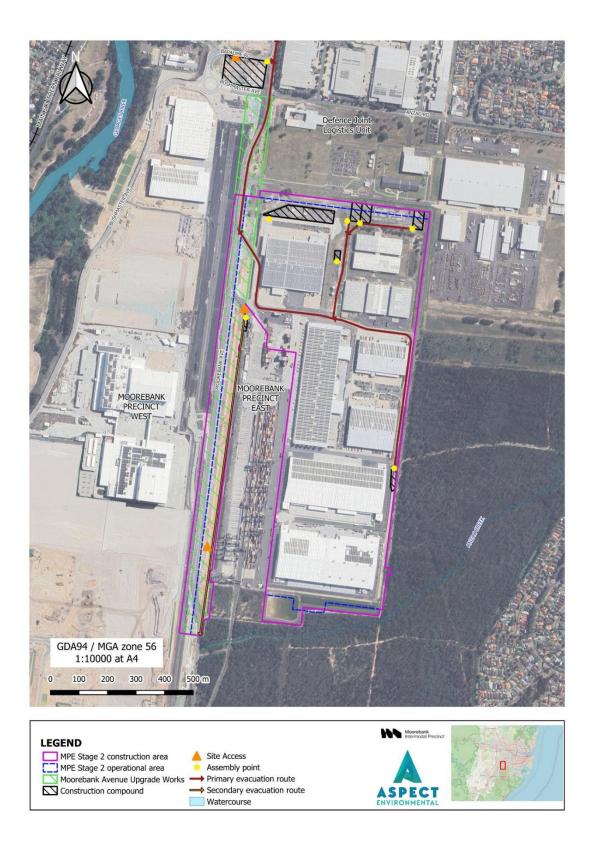


Figure 3-3 Assembly Point Locations and Evacuation Route



3.3.1. Emergency Access/ Egress

The arrangement for site access/egress during construction onto Moorebank Avenue is addressed in the Construction Traffic and Access Management Plan (CTAMP-B) and will vary per works period. There is one site access point, with traffic circulating through the site using future internal road bases.

Once vehicles have entered the site, heavy vehicles will generally travel along the future internal road network which runs east/west and connects to a north/south road that extends along the eastern side of the site, terminating in a cul-de-sac at each end. During construction, these roads will be comprised of a compacted gravel base, hardstand or similar material and will be two lanes (one lane in each direction).

These internal roads provide safe access for emergency service personnel and safe egress is available. Refer to Figure 3-1 for the internal road network.

3.3.2. Emergency Contacts

Emergency contact numbers are included in Table 3-3. The site contact details will be confirmed following the appointment of a Construction Contractor prior to the commencement of construction.

Name of Organisation	Details	Phone Number	
	Local Fire Control Centre	02 9603 7077	
	(Liverpool LGA)	02 9003 1011	
	Address	Cnr Alderney St and Townson Ave, Minto 2566	
NSW Rural Fire Service	Bush fire Information Line	1800 679 737	
	Bush life mornation Line	1800 NSW RFS	
	Rural Fire Service Headquarters	02 8741 5555	
	Website	www.rfs.nsw.gov.au	
	Fire and Rescue		
Fire and Rescue	Ambulance	000	
Ambulance Service of NSW	Police	000	
NSW Police Force	Emergency Services General		
	Website	https://www.police.nsw.gov.au/	
NSW State Emergency Service	General enquiries	02 4251 6111	
	Customer Contact Centre	1300 36 2170	
Liverpool City Council	National Relay Service (NRS) for hearing and speech impaired customers	133 677	

Table 3-3 Emergency Contact Details



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	Address	Ground Floor, 33 Moore St, Liverpool NSW 2170
	Contact	8738 3000
Liverpool Hospital	Address	Corner of Elizabeth and Goulburn Streets, Liverpool, NSW 2170
Environment Line	Contact	131 555
Ministry of Health	Contact	(02) 9391 9000
WorkCover	Contact	13 10 50
	Principal's Representative – Develop Manager	
	Contractor's Works Package Manager	
Site Contacts	Contractor's CM	
one contacts	Contractor's EM	
	Development Manager (Communications)	
	Contractor Health and Safety Manager	
LOGOS	Hotline Number	1800 986 465

3.4. Aspects, Impacts and Risks

Both on-site and off-site sources have the potential to ignite a bush fire. A bush fire may result in significant social, economic and ecological impacts on the Development and surrounding environment. External sources of ignition include:

- Deliberate burning of bushland
- Car dumping
- Discarded cigarette butts
- Illegal burning
- Lightning strike.

Construction activities (including the activities of construction staff) which may have the potential to cause ignition of bush fires include:



- Hot works
- Vehicle exhaust
- Idling of vehicles on vegetated areas
- Sparks or flame sources such as grinders and welders
- Stockpiles of vegetation such as mulch
- Site staff discarding cigarette butts.

The impacts of the above include:

- Damage to site facilities, property and equipment
- Increased risk of safety to site staff, local residents and businesses and the environment
- Damage / destruction of threatened species.

3.5. Cumulative Impacts

A qualitative assessment of the cumulative hazard and risk impacts of the Development, including the consideration of bush fires, was undertaken during the preparation of the EIS for MPE Stage 2 (refer to Section 19 of the EIS).

The assessment concluded that, assuming standard controls are implemented at the MPE Stage 2 site during construction, bush fire was deemed not to be of increased risk. Standard controls includes the ban of undertaking hot works during declared bush fire seasons and on total fire ban days.

Management measures (see Section 3.6) will be implemented prior to, during and after construction to avoid and minimise bush fire on the site. Appropriate implementation of these measures will minimise the bush fire risk and hence cumulative impacts across the Moorebank Logistics Park, are considered to be unlikely.

3.6. Management Measures

3.6.1. Asset Protection Zones (APZs)

The site APZs (Defendable Spaces) will be managed in accordance with the recommendations for an Inner Protection Area (IPA) as defined by Appendix 5 of *Planning for Bush fire Protection 2006* and the Rural Fire Service publication *"Standards for Asset Protection Zones"*.

The management of the landscaped gardens on site shall also strictly adhere to the management prescriptions provided in this CBMP.

The management of the APZs shall include a requirement for maintenance by the owner, or their successors, in strict compliance and conformance with the management prescriptions of this CBMP or in accordance with any notice issued by Liverpool Council or the Commissioner of the NSW Rural Fire Service, under the terms of Section 66 of the *Rural Fires Act 1997*.

3.6.1.1. Development APZs

The following Development Site APZs include the following:

• 40m between the warehouse and the construction boundary to the east side of the site.





- 45m between the warehouse and cadastral boundary to the south side of the site
- 10m managed area from the compound boundary to the vegetation to the west of the Moorebank Upgrade compound.
 - The managed area will not require vegetation clearing but will be kept in a low fuel state.

Refer to Figure 3-4 for the defendable space for the site. The APZs will be managed in accordance with the performance standards of APZs (Section 3.6.2).

Table 3-4 below outlines the APZ / defendable space for all directions of the site. Information was obtained from the Bush fire Protection Assessment for the Moorebank Precinct East Project Stage 2, Moorebank Avenue, Moorebank (Australian Bush fire Protection Planners 2016).

Aspect*	Vegetation Type	APZ / Defendable Space
North	Managed curtilage	N /A
East	Dry Sclerophyll Low Open Forest	40 m
South	Dry Sclerophyll Low Open Forest	45 m
West	Managed curtilage and isolated pockets of vegetation	10 m

Table 3-4 APZ / Defendable Spaces for the Development Site

*Note: Applicable to the MPE Stage 2 construction, but not MAUW compound on the MPW Site located immediately south of Bapaume Road. No APZ required at this location as per MPW Stage 2 EIS.

3.6.2. Performance Standards of APZs

The IPA is located adjacent to the asset, extending out from the buildings as shown on Figure 3-4, the presence of combustible fuels, which could become involved in a fire, are minimised close to the building, therefore the impact of direct flame contact and radiant heat on the adjacent development is minimised. As evident in Figure 3-4, the zones are also contained wholly within the site boundary and does not impact on the Boot Land.

Within the IPA any trees and shrubs should be maintained in such a manner that the vegetation is not continuous, and fuel loadings should be maintained to a maximum dry litter weight of less than 3 tonnes/hectares during the prescribed 'Bush fire Danger Period' (1 October – 31 March or as declared).

Management of the IPA shall also comply with the following:

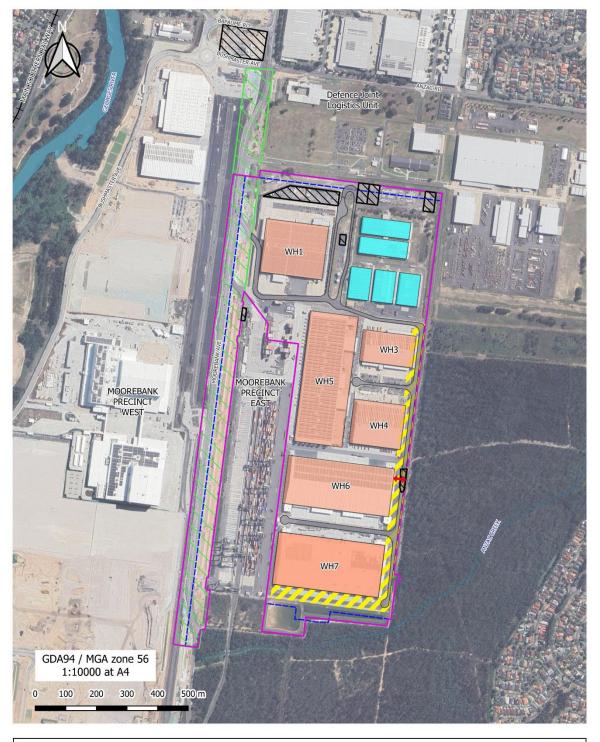
- Maintain a clear area of low-cut lawn or pavement adjacent to the buildings
- Keep areas under fences, gates & trees raked & clear of combustible fuels and keep strip and stormwater drainage pits free of leaf litter and combustibles generally
- Maintain a policy of installing non-combustible fencing and retaining wall structures
- Separate and maintain tree crowns by at least 2 m so that the canopy is not continuous and does not encroach closer than 5 m to the buildings



- Landscape species selection shall be drawn from those that are species which are "fire *retardant*" and do not promulgate the spread of fire and shrubs shall be placed so that they are clear of the facility by at least 5 m, and introduced trees and shrubs on site are not species that retain dead material
- Prune low tree branches 2 m from the ground to prevent a ground fire from spreading into the tree canopy
- Plant and maintain short green grass or provide paths around the buildings to slow the fire and reduce fire intensity
- Avoid the use of flammable mulch in garden beds that adjoin the buildings.



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LEGEND

- MPE Stage 2 construction area
- MPE Stage 2 operational area Moorebank Avenue Upgrade Works
- Construction compound







Figure 3-4 Defendable Space

3.6.3. Management Program

The following management program shall be implemented in the maintenance of the bush fire protection measures to the site. Table 3-5 provides a guide to the timing of the works required to maintain the APZs.

Table 3-5 Timing of Works within the IPA

Management Area		Management Prescription	Method	Timing
	Landscaped Gardens	of combustible fuels and	Manual removal of combustible fuels; pruning of shrubs	Intervals not to exceed monthly in spring and summer
IPA	Lawns and verges to roads	Minimize Fine Fuels – to <3 tonnes/hectare	Mowing and slashing	Intervals not to exceed monthly in spring and summer
	Trees	Provide 2 m canopy separation between trees and maintain limbs 2 m clear of ground and shrubs	Pruning	Annual Inspection with works undertaken in spring
Buildings	External surfaces / gutters	Check fire protection measures to buildings. Confirm placement and integrity of ember screening Clean roof box gutters	Visual check and repair if necessary. Manual removal of debris	Annual Inspection in August Removal of combustible materials in gutters not to exceed monthly in spring and summer

This section describes the overall approach to managing and mitigating bush fire risks during construction of the Development. Fire management or prevention practices include activities that landowners and communities implement to prepare for, and respond to, bush fire events. These include fire control line construction and maintenance, fuel reduction through burning or clearing (slashing, mowing etc.) and having the resources and equipment available to fight fires. The risk of fire is increased if these prevention and preparation activities are incomplete.

The management measures in Table 3-6 are based on *NSW RFS Guidelines - Planning for Bush Fire Protection (2006).*



Table 3-6 Management Measures

ID	Management Measures	Timing	Responsibility	Reference
Trainir	ng			
BM1	Bush fire awareness and requirements of bush fire safety will be included in staff inductions and in toolbox talks pre-commencement	Prior to construction	n Contractor's EM	Best practice
BM2	All staff will be required to undergo staff/site inductions and toolbox talks	During construction	Contractor's EM	Planning for Bush fire Protection 2006 (PBP 2006)
Plant a	and Equipment			
BM2	Firefighting equipment will be made available at designated locations in site offices and within site vehicles. These will be maintained in accordance with AS1851:2012.	During construction	Contractor's EM	PBP 2006
BM3	Fire hydrants will not be located within any road carriageway	During construction	Contractor's PM	PBP 2006
BM4	Fire hydrant spacing, sizing and pressures will comply with AS 2419.1-2005.	During construction	Contractor's PM	PBP 2006
BM5	Plant and equipment will be fitted with appropriate guards to minimise potential for sparks causing accidental ignition.	During construction	Contactor's CM	PBP 2006
BM6	Water trucks will be available on site at all times.	During construction	Contractor's CM	PBP 2006
BM7	Hazardous materials transport, containment and storage will comply with the relevant regulations of the Dangerous Goods Safety Act 2004. All hazardous materials will be stored in accordance with the relevant Australian Standards in designated areas.	During construction	Contractor's CM	PBP 2006



BM8	Vehicles and plant will not block fire trails.	During construction	Site Supervisor	Best practice
Constru	uction Activities			
BM9	No vehicles will be permitted to idle while on vegetation to minimise risk of ignition.	During construction	Site Supervisor	PBP 2006
BM10	No hot works will be permitted during total fire bans.	During total fire ban	Site Supervisor	FCMM 13A PBP 2006
BM11	All flammable material will be removed from the vicinity of hot works.	During hot works activities	Site Supervisor	PBP 2006
Access	and Compounds			
BM12	All site offices will be accessible via access roads suitable for firefighting appliances similar to NSW RFS category 1 tankers.	During construction	Contractor's CM	FCMM 13A PBP 2006
BM13	Access roads will be well maintained and inspected to confirm that firefighting access is adequate.	During construction	Site Supervisor	PBP 2006
BM14	Public access roads will be two-wheel drive and all weather roads.	During construction	Contractor's CM	PBP 2006
BM15	The emergency assembly point and evacuation routes will be clearly signposted and communicated	. During construction	Contractor's CM	PBP 2006
BM16	All site offices and temporary buildings will be located at least 10 m outside vegetation buffer zone as shown on the Certified Liverpool Bush fire Prone Land Map.	During construction	Contractor's CM	FCMM 13A PBP 2006
BM17	Emergency services/personnel will have safe access and egress to bush fire prone land at all times.	During construction	Contractor's CM	PBP 2006 FCMM 7B



RSoCs

Protection Zones			
	t During construction	Contractor's EM	CoC B111
of the IPA in order to not impact the Boot Land.	Daning concaracion		CoC B144
The APZs will be managed and maintained to prevent the spread of fire towards the building in accordance with the requirements of the <i>Standards for Asset Protection Zones</i> (RFS 2005).	During construction	Contractor's EM	CoC B144
Soil stability of the APZs will not be compromised and the APZs will be located on lands with a slope less than 18 degrees.	⁹ During construction	Contractor's EM	PBP 2006
Radiant heat levels at any point on the proposed buildings will not exceed 29 kW/m ² .	During construction	Contractor's EM	PBP 2006
ion Management			
Vegetation buffer zone (as shown on the Certified Liverpool Bush fire Prone Land Map) will be clearly designated and shall not be used at any time for storage of materials during Construction.	During construction	Contractor's EM	PBP 2006
Stockpiles of mulch will be maintained and turned regularly to minimise potential for spontaneous	During construction	Site Supervisor	PBP 2006
combustion.	During construction	Contractor's EM	1 Bi 2000
tation			
The Construction Contractor will actively engage in, and maintain, on-going consultation with RailCorp and the Rural Fire Service to facilitate hazard reduction activities in proximity to the Development.	During construction	Contractor's PM	PBP 2006
	The Asset Protection Zone (APZ) will be contained wholly within the site boundary and managemen of the IPA in order to not impact the Boot Land. The APZs will be managed and maintained to prevent the spread of fire towards the building in accordance with the requirements of the <i>Standards for Asset Protection Zones</i> (RFS 2005). Soil stability of the APZs will not be compromised and the APZs will be located on lands with a slope less than 18 degrees. Radiant heat levels at any point on the proposed buildings will not exceed 29 kW/m ² . tion Management Vegetation buffer zone (as shown on the Certified Liverpool Bush fire Prone Land Map) will be clearly designated and shall not be used at any time for storage of materials during Construction. Stockpiles of mulch will be maintained and turned regularly to minimise potential for spontaneous combustion.	The Asset Protection Zone (APZ) will be contained wholly within the site boundary and management of the IPA in order to not impact the Boot Land. During construction The APZs will be managed and maintained to prevent the spread of fire towards the building in accordance with the requirements of the Standards for Asset Protection Zones (RFS 2005). During construction Soil stability of the APZs will not be compromised and the APZs will be located on lands with a slope less than 18 degrees. During construction Radiant heat levels at any point on the proposed buildings will not exceed 29 kW/m². During construction ton Management Vegetation buffer zone (as shown on the Certified Liverpool Bush fire Prone Land Map) will be clearly designated and shall not be used at any time for storage of materials during Construction. During construction Stockpiles of mulch will be maintained and turned regularly to minimise potential for spontaneous combustion. During construction The Construction Contractor will actively engage in, and maintain, on-going consultation with RailCorp and the Rural Fire Service to facilitate hazard reduction activities in proximity to the During construction	The Asset Protection Zone (APZ) will be contained wholly within the site boundary and management of the IPA in order to not impact the Boot Land. During construction Contractor's EM The APZs will be managed and maintained to prevent the spread of fire towards the building in accordance with the requirements of the Standards for Asset Protection Zones (RFS 2005). During construction Contractor's EM Soil stability of the APZs will not be compromised and the APZs will be located on lands with a slope less than 18 degrees. During construction Contractor's EM Radiant heat levels at any point on the proposed buildings will not exceed 29 kW/m ² . During construction Contractor's EM Vegetation buffer zone (as shown on the Certified Liverpool Bush fire Prone Land Map) will be clearly designated and shall not be used at any time for storage of materials during Construction. During construction Contractor's EM Stockpiles of mulch will be maintained and turned regularly to minimise potential for spontaneous combustion. During construction Site Supervisor Contractor's EM tation The Construction Contractor will actively engage in, and maintain, on-going consultation with RailCorp and the Rural Fire Service to facilitate hazard reduction activities in proximity to the During construction Contractor's PM



BM25	Live electricity lines will be regularly inspected to establish that they are not fouled by branches.	During construction	Site Supervisors	CoC B146
		Daning concaracion		PBP 2006
BM26	Electricity transmission lines will be located underground in the first instance where practicable to limit the possibility of ignition of surrounding bushland or the fabric of buildings.	During construction	Contractor's CM	CoC B146
				PBP 2006
DMOZ	Trees and other vegetation in the vicinity of overhead electrical transmission lines will be managed and trimmed in accordance with the distance specifications in "Vegetation Safety Clearances" During construction issued by Energy Australia (NS179, April 2002).		Contractor's CM	CoC B146
BM27		During construction	Contractor's EM	PBP 2006
BM28	Overhead electrical transmission lines will be installed with short role encoing (20 metros)		Contractor's CM	CoC B146
	Overhead electrical transmission lines will be installed with short pole spacing (30 metres). During const	During construction	Contractor's CIM	PBP 2006
BM29	Utility services will be adequate to meet the needs of fire fighters. For example, firefighting water supply will be installed to comply with AS2419.1 – 2005.	During construction	Contractor's CM	RSoCs



4. Monitoring and Review

4.1. Environmental Monitoring

Monitoring under this plan will be undertaken by the Contractor's EM during weekly inspections of construction activities to monitor compliance and conformance with the requirements of the CoCs and this plan. Weekly inspections will focus on the following key issues:

- Maintenance of APZ / Defendable Spaces
- Provision of fire appliance access
- Storage of combustible materials in the APZ / Defendable Spaces
- Presence and maintenance of firefighting equipment
- Maintenance of plant and vehicles to minimise sparks and accidental ignition
- Maintenance of buffer zones.

An Environmental Inspection Checklist will be used to maintain compliance, conformance and effectiveness of controls. Items that require action will be documented during environmental inspection and notified to the relevant Site Supervisor. The relevant Site Supervisor will be responsible for providing appropriate resources in terms of labour, plant and equipment to enable the items to be rectified in the nominated timeframes.

Daily inspections and maintenance of controls will be made by the Site Supervisor and maintenance will be recorded in site diaries during active site works.

4.2. Environmental Auditing and Reporting

Auditing and reporting will be undertaken in accordance with Section 4.3 of the CEMP.

4.3. Non-compliances, Non-conformances and Actions

It is the responsibility of all site personnel to report non-compliances and nonconformances to the Site Supervisor and/or the Contractor's EM.

Non-conformances, non-compliances and corrective and preventative actions will be conducted in accordance with Section 4.4 of the CEMP.

4.4. Review and Improvement

Review and improvement of this plan will be undertaken in accordance with the CoCs and Section 4 of the CEMP. Continuous improvement will be achieved by the ongoing evaluation of environmental management performance and effectiveness of this plan against environmental policies, objectives, and targets.

A copy of the updated plan and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure.

The most recently approved version of the CBMP will be implemented for the duration of the development.



APPENDIX A COMPLIANCE MATRICES



A.1 Conditions of Consent

The Development is being delivered under Part 4, Division 4.7 (previously Division 4.1 prior to 1 March 2018) of the EP&A Act. The CoCs include requirements to be addressed in this plan and delivered during the Development. These requirements and how they are addressed are provided within Table A-1 and are prepared in accordance with CoC C21.

Table A-1 Conditions of Consent (CoCs)

CoC	Requirement	Document Reference	How Addressed
A1	In addition to meeting the specific performance measures and criteria established under this consent all reasonable measures must be implemented to prevent, and if prevention is not reasonable, minimise, any harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.	Section 3 Section 4	Section 3 of this plan identifies the management measures to be implemented to prevent and minimise environmental harm. Section 4 sets out the processes for monitoring and reviewing the effectiveness of these management measures. Opportunities to further minimise environmental harm will be identified through the ongoing evaluation of environmental management performance and effectiveness of this plan.
A2	The development may only be carried out: (a) in compliance with the conditions of this consent; (b) in accordance with all written directions of the Secretary in relation to this consent; (c) in accordance with the EIS, Submissions Report, Consolidated assessment clarification responses, and updated Biodiversity Assessment Report; (d) in accordance with all Modification Assessments (if any); (e) in accordance with the amended Development Layout Plans and Design Plans, amended WSUD plans and amended architectural plans to be submitted for the Secretary's approval as part of this consent; and (e) in accordance with the management and mitigation measures at APPENDIX B of this consent.		This CBMP has been developed to comply with the CoCs, amended development layout and management and mitigation measures outlined in Appendix B of the CoCs. No written directions have been received from the Secretary either directly or indirectly relating to the content expectations of this CBMP.



A20	All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes the obligation for the Applicant to obtain, renew or comply with such licences, permits,	CEMP	All applicable licences, permits and approvals will be obtained as required. Approvals, permits and licences required for the Development are discussed in Appendix B and C of the CEMP.	
	approvals and consents.		An Environmental Protection Licence (EPL) (No. 21054) was issued by the EPA on 4 June 2018. The licence applies to the Moorebank Precinct areas identified in the Licence's premises map condition. Scheduled activities include crushing, grinding or separating, and contaminated soil treatment. The Licence enables the importation of material classified under a Resource Recovery Order where the onsite use (approved land use) is consistent with the applicable Resource Recovery Exemption. Approval of this plan by the NSW	
			RFS will be completed prior to construction of permanent access or buildings, unless otherwise agreed by the Secretary.	
Β1	The Applicant must: (a) prepare each plan, program and other documents in consultation with the specified stakeholders; (b) not commence each phase of the project until the plans, programs and other documents required under this consent are approved by or, where not required to be approved, submitted to the Secretary specified within the timeframes; and (c) implement the most recent version of the required plans and programs approved by the Secretary for the duration of the development	Section 1.3 Section 1.4 Section 1.6	 (a) The CBMP has been prepared in consultation with the NSW RFS. (b) Section 1.3 confirms that construction of permanent access or buildings will not commence until the CBMP has been approved by the NSW Rural Fire Service and submitted to the Secretary. (c) Section 1.4 confirms that the most recent version of the CBMP will be implemented for the duration of construction. 	
B111	Bush fire asset protection zones are to be contained wholly within the site boundary and management of the inner protection zone and must not impact on the Boot Land.	Figure 3-4	Bush fire asset protection zones are contained wholly within the site boundary and management of the inner protection zone would not impact on the Boot Land as shown in Figure 3-4	

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B144	The entire site must be managed as an inner protection area (IPA) as outlined within section 4.1.3 and Appendix 5 of the <i>Planning for Bush</i> <i>Fire Protection 2006</i> and the NSW Rural Fire Service's document <i>Standards for asset protection zones</i> . An updated Bush fire Management Plan must be prepared by a suitably qualified person(s) having regard to the amended final plans and demonstrating that the bush fire asset protection zones can be contained wholly within the site boundary and that management of the inner protection zone will not impact on the Boot Land. The Bush fire Management Plan must be approved by the RFS and submitted to the Secretary prior to construction of permanent access or buildings, unless otherwise agreed by the Secretary.	This plan	The CBMP has been prepared to address the requirements of this condition. This plan has been prepared by a suitably qualified person (refer to author details are the start of this plan). Section 1.6 and Appendix A demonstrates consultation with NSW RFS.
B145	Public road access must comply with section 4.1.3(1) of <i>Planning for Bush Fire Protection 2006</i> except for the requirement for through-access.	Section 3.1.1	Primarily operational requirement. During construction, suitable access for emergency vehicles will be available via the alignment of the future internal road network which runs east/west and connects to a north/south road extending along the eastern side of the site.
B146	The provision of water, electricity and gas must comply with section 4.1.3 of <i>Planning for Bush Fire Protection</i> 2006.	Section 3.6	Primarily operational requirement. Risk associated with the provision of electricity services during construction are addressed by management measures BM26, BM27, BM28, BM29 and BM30 in Section 3.6.
C7	The Applicant must ensure that the environmental management plans required under this consent are prepared in accordance with any relevant guidelines, and include: (a) detailed baseline data;	Section 3.2	Section 3.2 and Figure 3-2 provide information related to detailed baseline data for the Development,
	 (b) a description of: (i) the relevant statutory requirements (including any relevant approval, licence or lease conditions); (ii) any relevant limits or performance measures/criteria; and 	Section 2 Section 1.5	 (i) Section 2 lists the legal and other requirements for the Development Site. (ii)(iii) Section 1.5 details the objectives (performance measures)



(iii) the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;		and the targets (performance indicators).
(c) a description of the management measures to be implemented to comply with the relevant statutory requirements, limits or performance measures/criteria;	Section 3.6	Section 3.6 sets out the management measures required to be implemented under this plan.
 (d) a program to monitor and report on the: (i) impacts and environmental performance of the development; and (ii) effectiveness of any management measures (see (c) above); 	Section 4	A monitoring and report program is outlined in Section 4 for imported spoil management.
(e) a contingency plan to manage any unpredicted impacts and their consequences;	Section 3.3	Section 3.3 includes measures to address emergencies related to bush fires.
(f) a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 4.4	Programs to investigate and implement ways to improve the environmental performance of the development over time will be conducted in accordance with Section 4.4.
 (g) a protocol for managing and reporting any: (i) incidents and non-compliances; (ii) complaints; (iii) non-compliances with statutory requirements; and 	CEMP	The CEMP outlines a protocol for addressing any incidents, non- compliances and complaints.
(h) a protocol for periodic review of the plan. Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for a particular management plan.	Section 4.4	Periodic review of the plan will occur and is outlined in Section 4.4 and the CEMP.



A.2 Final Compilation of Mitigation Measures

The FCMMs were prepared as part of the MPE Stage 2 Submissions Report (Arcadis 2017). A list of the FCMMs as relevant to the Development and how they have been complied with in this plan are provided in Table A-2 and the Compliance Tracking Program, prepared in accordance with CoC C21.

Table A-2 Final Compilation of Mitigation Measures (FCMMs)

FCMM	Requirement	Document Reference
0B	The Construction Environmental Plan (CEMP), or equivalent, for the amended Proposal would be based on the PCEMP (Appendix G of the EIS), and include the following preliminary management plans:	This plan has been prepared to satisfy this requirement.
	Bush fire Management Plan	
7B	The following measures would be included in the CEMP (or equivalent) to minimise hazards and risks:	This condition is addressed in management measures BM17 in
	Safe operational access and egress for emergency service personnel and workers will be provided at all times, and specified in the CEMP.	Section 3.6.
13A	A bush fire management strategy, or equivalent, will be prepared as part of the CEMP for the Amended Proposal.	This CBMP has been prepared to satisfy this requirement.
	The strategy will include:Emergency response plans and procedures	These conditions are addressed in management measures
	 Restrictions on activities (namely hot works) that cannot be undertaken on total fire ban days within areas of high Bush fire Hazard Rating, unless otherwise advised by the NSW Rural Fire Service. 	BM10, BM12, and BM16 in Section 3.6.
	 All construction site offices and temporary buildings will be located outside buffer areas to ensure minimum setbacks of 10 m. 	
	All construction site offices will be accessible via access roads suitable for firefighting appliances similar to NSW Rural Fire Service Category 1 Tankers.	

A.3 Revised Statement of Commitments

The Revised Statement of Commitments (RSoC) includes the most recent compilation of ESR commitments to mitigate the environmental impacts, monitor the environmental performance and/or achieve a positive environmentally sustainable outcome. These RSoC (June 2017) were presented in the Moorebank Precinct East – Concept Plan Modification 2 Response to Submissions. The RSoC that are relevant to this plan are identified in Table A-3



Table A-3 Revised Statement of Commitments (RSoC)

RSoC	Requirement	Document Reference
Bush fire Management	 The Proponent commits to incorporating the key objectives identified by the Rural Fire Service (RFS) into relevant future design stages, in accordance with the following principles: Afford occupants of any building adequate protection from exposure to a bush fire. 	Refer to management measures BM17, BM20 and BM30 in Section 3.6.
	 Ensure safe operational access and egress for emergency service personnel and residents. 	
	 Provide for ongoing management and maintenance of bush fire protection measures, including fuel loads in asset protection zones (APZs). 	
	• Ensure that utility services are adequate to meet the needs of fire fighters.	
	The Proponent commits to the development of a Bush fire Management Plan for both the construction and operational phases of the SIMTA proposal that aligns with the requirements of the local RFS Bush fire Management Committee operational plans of management.	This CBMP has been prepared to satisfy this requirement.
Climate Change Risk	Incorporate appropriate strategic protection zones, including asset protection zones into design to limit bush fire risk to acceptable levels, where required.	Section 3.6.1 Figure 3-4
	Control of performance of hotworks on total fire ban days during construction and operation, particularly within any defined asset protection zones.	Refer to management measure BM10 in Section 3.6.

A.4 MPE Concept Plan Conditions of Approval

Table A-4 MPE Concept Plan Conditions of Approval (CoA)

СоА	Requirement	Document Reference
Bush fire Management	Any future Development Application shall be accompanied by an assessment against the Planning for Bush fire 2006 (NSW Rural Fire Service).	This condition relates to future Development Application for individual buildings and not construction.
Biodiversity	Hot work not to be undertaken on declared total fire ban days.	This condition is addressed in management measure BM10 in Section 3.6.
	Vehicles and plant should not block fire trails.	This condition is addressed in management measure BM8 in Section 3.6.



Bush fire awareness included in staff induction and in toolbox talks pre-commencement.

This condition is addressed in management measure BM1 and BM2 in Section 3.6.

A.5 Commonwealth Conditions of Approval

No Commonwealth Conditions of Approval are applicable to this plan.



APPENDIX B EVIDENCE OF CONSULTATION



Addressing comments from NSW RFS dated 5 April 2018

Section of Comment Comment		SIMTA Response	Section Amended
N/A	The preparation of a Bush fire Management Plan is not a recommendation from the NSW RFS in accordance with our response dated 20 September 2017.		N/A