



Lower Plenty Construction Compound Plan (CCP) – Structures Compound

Site Amenities and Temporary Works required to facilitate the Lower Plenty cut and cover structures
North East Link – Primary Package


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PLANNING AND ENVIRONMENT ACT 1987
BANYULE, BOROONDARA, MANNINGHAM, NILLUMBIK,
WHITEHORSE, WHITTLESEA AND YARRA PLANNING SCHEMES
CONDITION 4.12 OF THE NORTH EAST LINK PROJECT
INCORPORATED DOCUMENT, DECEMBER 2019 (AMENDED
SEPTEMBER 2023)

ENDORSED REPORT

SHEETS 1 to 48

SIGNED 

FOR
MINISTER FOR PLANNING

DATE 11/12/2023

Details of Revision Amendments

Document Control

The Construction Environmental Representative is responsible for ensuring that this plan is reviewed and approved. The Construction Environmental Representative is responsible for updating this plan to reflect changes to construction, legal and other requirements, as required.

Amendments

Any revisions or amendments must be approved by the Project Director in consultation with Project Co before being distributed / implemented.

Revision Details

Revision	Details	Date
A	Submitted to NELP for Review	31/01/2022
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Definitions and Abbreviations

Term/Abbreviation	Definition
Annual Exceedance Probability (AEP)	Defines the likelihood of a flood occurring in any given year. The most used definition in planning is the '1 in 100-year flood'. This refers to a flood level that has a one in a hundred, or 1%, chance of being equalled or exceeded in any year (1% AEP = 100-year average recurrence interval).
Business	Commercial activity in which the aim is to make a profit.
CCEP	Communication and Community Engagement Plan
CCP	Construction Compound Plan
Condition Report	A report completed prior to occupancy which involves a visual assessment of the Compound area highlighting any constructional and cosmetic fabric defects. As agreed with SPARK and NELP, the Condition Report must be completed and agreed with Council prior to sign off by all parties.
Construction Environmental Management Plan (CEMP)	Overarching document which details the management of environmental aspects and impacts associated with the delivery of the works. The document has been prepared in accordance with the EMF.
Community Facilities	Refers to recreational, social, or educational spaces (for example schools, sports ovals, or local halls) available for use by the local community.
Compound	Long term compound, including buildings for office, crib (meals), ablutions and washing facilities located within fixed a boundary.
Construction Site	Short term construction works areas or construction fronts including temporary storage/laydown areas that are to be undertaken throughout the Primary Package
CNVMP	Construction Noise and Vibration Management Plan
Decibel (dB)	A logarithmic scale is used to describe the level of sound, referenced to a standard level. It is widely accepted that a 3dB change in traffic noise levels (of the same character) is barely, if at all detectable, whereas a change of 5 dB is clearly noticeable. A 10 dB increase is typically considered to sound twice as loud (noting a change of -10 dB would typically sound half as loud).
DELWP	Department of Environment, Land, Water & Planning
D&C	Design and Construction
D&C Contractor	Joint venture between the entities, Webuild S.p.A, GS Engineering & Construction Australia Pty Ltd, CPB Contractors Pty Ltd and China Construction Oceania Pty Ltd
Environment Effects Statement (EES)	Assessment of the potential environmental, social, and business impacts associated with the proposed construction and operation of the North East Link Primary Package under the Environment Effects Act 1978.
Environmental Management Framework (EMF)	The EMF is to provide a transparent framework to manage the environmental effects of the Project to meet statutory requirements, protect environmental values and sustain stakeholder confidence. The EMF provides clear accountabilities for the implementation of the Environmental Performance Requirements (EPRs)
Environmental Performance Requirements (EPRs)	A suite of performance-based environmental standards and outcomes that apply to the design, construction, and operation of the Project. Define the minimum environmental outcomes that must be achieved during Project delivery.
EMS	Environmental Management System
EPA	Environment Protection Authority Victoria

Term/Abbreviation	Definition
FFG	Flora and Fauna Guarantee Act 1998 (Vic)
Incorporated Document	GC98 - The delivery of the Project is facilitated by the Incorporated Document under the Banyule, Boroondara, Manningham, Whitehorse, Whittlesea, and Yarra Planning Schemes approved December 2019.
Independent Environmental Auditor (IEA)	The independent party appointed by the Victorian Government to undertake environmental reviews and environmental audits of project activities including assessing compliance with the EMF. The Independent Environmental Auditor is a component of the Independent Reviewer and Environmental Auditor role.
Independent Reviewer and Environmental Auditor (IREA)	The Independent Reviewer and Environmental Auditor is appointed by the Victorian Government to perform two roles: review and environmental audit. The review role involves independent review of project activities including design reports, construction packages, and design and construction management. The Independent Environmental Auditor role is described above.
North East Link Project (NELP)	North East Link Project is an organisation within MTIA that is responsible for developing and delivering the project on behalf of the Victorian Government.
M&E	Mechanical and Electrical
MWC	Melbourne Water Corporation
NEL	North East Link
NML	Noise Management Level
Open Space	Land that provides outdoor recreation, leisure and/or environmental benefits and/or visual amenity.
PPP	Public Private Partnership
Primary Package (PP)	Design, financing, construction and commissioning of the Works, including 6.5km twin three or four-lane tunnels, with interchanges at Manningham and Lower Plenty Roads and upgrades to Greensborough and Bulleen Roads.
Project Co	Spark North East Link Pty Limited as trustee of the Spark North East Link Trust
PSA	Planning Scheme Amendment
Project	The North East Link project approved under the Incorporated Document.
Project boundary	The project boundary encompasses the area within which the project will be developed and is the area that is referenced in the Incorporated Document.
Project Co	Spark North East Link Pty Limited as trustee of the Spark North East Link Trust
Reserve	Land reserved for community or public purposes.
Risk	Risk is measured as a combination of the magnitude of potential consequences of an event happening, and the likelihood of the event and associated impact occurring.
Stakeholders	Stakeholders as specifically identified under Clause 4.5.5 (b-c) of the Incorporated Document. Also defined by person or group affected by or concerned with an issue.
SEM	Sequential Excavation Mining
Sensitive Receptors	Sensitive receptors as per relevant statutory guidelines, including homes, schools, universities and hospitals, or places where a person's regular daily life might be affected by amenity impacts because of the Project. Sensitive receptors do not include public open space or places of work.
Shared user path (SUP)	A shared use path (SUP) is a path that may be used by walkers and cyclists. For the Project shared use paths have been designed to be not less than three meters wide.

Term/Abbreviation	Definition
Spark	Consortium selected to deliver the primary package on the North East Link (NEL)
TBM	Tunnel Boring Machine
TIA	Traffic Impact Assessment
TPZ	Tree Protection Zone
UDLP	Urban Design Landscape Plan
UDS	Urban Design Strategy
Unavoidable works	Unavoidable works are defined in EPR NV3 and must be verified by the IEA as such for each instance they are undertaken. Unavoidable works may result in noise from construction works during weekend/evening work hours and the night period which do not meet the guideline targets in EPR NV3 and the definition of unavoidable works.
WEMP	Worksite Environmental Management Plan
YVM	Yarra Valley Water

1 Project Overview

1.1 Purpose and Scope

The purpose of this Construction Compound Plan (CCP) is to comply with the requirements of clauses 4.12.1 and 4.12.2 of the NEL Project Incorporated Document (Incorporated Document) and regulate the use and development of the Structures Compound for the Lower Plenty Construction Site.

A Construction Compound is a long-term Compound comprising buildings for office, crib meals, ablutions and washing facilities located within a fixed boundary. The Construction Compound is established and operated in accordance with the approved CCP, and relevant EPRs included in the approved EMF. It is not a construction site but supports construction activities.

A construction site comprises of short-term construction work areas or construction ancillary facilities such as but not limited to, temporary storage/laydown areas, bentonite plants and water treatment plants.

This approach to delineate Compound and construction sites is consistent with previous CCPs approved for the Early Works Package of the NEL Project.

This plan describes the proposed activities, hours of operation and potential environmental and community impacts of the Lower Plenty Structures Compound (Compound). This includes mitigation and management controls associated with the construction and operation of the proposed Compound that will support site establishment and ongoing construction as part of the Primary Package of the NEL.

1.2 North East Link Primary Package Overview

Spark North East Link Pty Limited as trustee of the Spark North East Link Trust (Project Co) has been contracted by the Minister for Transport Infrastructure for, and on behalf of, the Crown in right of the State of Victoria and the North East Link State Tolling Corporation (together the State) to deliver the Primary Package under a Project Deed dated 27 October 2021 (Project Deed).

The aim of the NEL Project is to complete the missing link in Melbourne's orbital freeway between an upgraded Eastern Freeway and the M80 Ring Road.

The Design & Construction (D & C) Contractor has been contracted by North East Link to deliver the Primary Package under a public-private partnership (PPP) framework. This encompasses:

- Designing, financing, constructing and commissioning of the Works, including 6.5km twin three or four-lane tunnels, with interchanges at Manningham and Lower Plenty Roads, and upgrades to Greensborough Road and Bulleen Road, as well as the Secondary Package (SP) Intelligent Transport System (ITS) Works
- Development of the SP Interface Zones Preliminary Design
- Undertaking the Services for the Primary Package and the Extended Operational Activities for the Extended Operational Area
- The Secondary Packages will be designed and constructed by other parties.

Project Co has subcontracted the Development Activities (as defined in the Project Deed) to the unincorporated Joint Venture, comprising Webuild S.p.A, GS Engineering and Construction Australia Pty Ltd, CPB Contractors Pty Ltd and China Construction Oceania Pty Ltd (D&C Contractor) under the D&C Contract between Project Co and the D&C Contractor dated 27 October 2021 (D&C Contract).

The Primary Package has been split into multiple construction sites: Northern Construction Area, Manningham Construction Area, and Southern Construction Area.

Locations of the proposed compounds that will support the construction activities for the NEL Primary Package are listed in Table 1.

Table 1 Construction Compound Plans – Primary Package

Construction Area	Construction Compound Plans	Construction Activity supported by this CCP
Northern	Lower Plenty Compound (this plan) Mobilisation Compound (Borlase Reserve Early Works Compound)	Comprises the Lower Plenty cut and cover structures.
	<ul style="list-style-type: none"> ■ Civil and roads Compound ■ TBM Compound ■ Ventilation office Compound ■ Winsor Reserve Spoil Handling Facility 	Comprises the Watsonia trench and TBM launch structures and site installations. Civil / roads Compound supports northern roadworks, piling and excavation works TBM Compound supports tunnel boring operations. Ventilation Office Compound supports SEM of tunnelling followed by construction of the ventilation building at Simpson Barracks.
Manningham	<ul style="list-style-type: none"> ■ Mobilisation Compound ■ Structural/ ME Compound ■ SEM Compound 	Comprises the Manningham cut and cover structures, the SEM Tunnel site installations and the operations and maintenance building.
Southern	<ul style="list-style-type: none"> ■ Civil/ structural/ roads Compound ■ Cut and cover Compound 	Comprises the Bulleen cut and cover structure, including the land bridge and the southern ventilation building.

Each Compound supports construction activities different to the others. Each Compound requires supervisory and engineering staff located immediately adjacent to the works to directly manage all aspects of the works including Workplace Health and Safety (WHS) requirements. Surface workers and subsurface workers are always segregated in their on-site facilities due to the difference in nature of their works and the significant controls to strictly manage underground employees.

Separate to the Lower Plenty Structures Compound, the SEM support Compound (Ventilation Office Compound) is further separated due to the nature of the plant and machinery directly supported by the Compound and to remove unnecessary interaction of personnel and plant as required by WHS legislation.

The Compounds cannot be consolidated into a single Compound due to:

- No available Compound site of sufficient size to support the gross white collar supervisory or blue-collar workforce numbers in any single (or two) locations
- The differing WHS requirements of each Compound's supported construction activities
- The differing operational requirements of each Compound
- The Compounds are mobilised and demobilised at different times to suit project finishing works.

The Compound described in this plan, will support construction activities related to cut and cover tunnel works.

Table 2 Indicative Timeframes

Compound Milestones	Timing
Mobilisation activities commence Mobilisation of Lower Plenty Mini-Compound	Q3/Q4 2022 Q3 2023
Occupation of the compound	Q3/Q4 2022
Demobilisation	Q4 2026

2 NEL Approvals

2.1 Primary Approvals and Incorporated Document Requirements

NELP has obtained the Primary Approvals for the NEL Project that apply to the Primary Package. These Approvals include:

- Planning approval under the Planning and Environment Act 1987
- Cultural Heritage Management Plan (No. 15576) approved under the Aboriginal Heritage Act 2006
- Approval for works on Commonwealth land under the Environment Protection and Biodiversity Conservation Act (Cth) 1999
- Development License authorising the development and installation of the road tunnel ventilation systems for the NEL Project under the Environment Protection Act 2017.

Planning approval for the NEL Project is facilitated through a PSA (GC98), as gazetted on 3 January 2020. The PSA allows for the use and development of the NEL Project, subject to specific controls set out in the NEL Project Incorporated Document which apply to all land within the designated Project boundary.

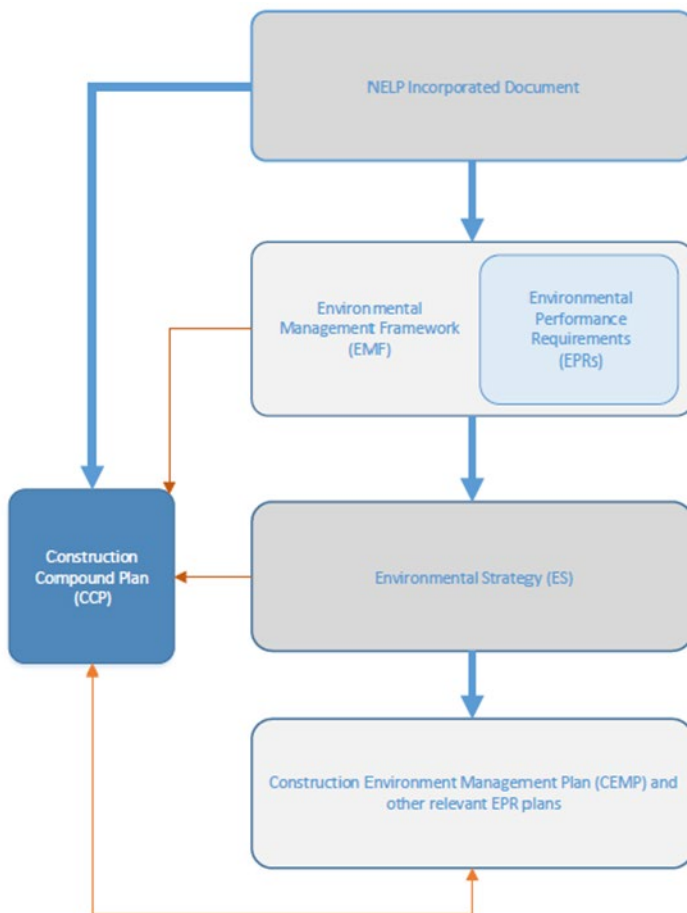


Figure 1 CCP Planning Approval Complex

This plan is prepared in accordance with the Incorporated Document and its preparation is informed by the EPRs. Figure 1 illustrates the planning and environment approvals context for this plan.

2.1.1 Incorporated Document

The Incorporated Document allows the land within the Project boundary to be used and developed for the NEL Project. The Incorporated Document has the effect of exempting the Project from the usual requirements of the planning schemes and allowing the use and development of land for the Project, so long as the works are located within the Project boundary and comply with the conditions of the Incorporated Document.

The following conditions of the Incorporated Document are being met through the development of this plan:

- CCP to be prepared in accordance with the requirements of Clause 4.12 of the Incorporated Document
- Preparation of CCP to the satisfaction of the Minister for Planning
- On IEA verification and Minister for Planning acceptance of this plan, the current version of this plan must be published on the Project website.

Clause 4.12 of the Incorporated Document outlines requirements for CCPs, including content requirements. These requirements are summarised in Table 3, with a cross reference to where they are addressed in this plan. Unless an exemption has been provided by the Minister for Planning, CCPs are required for all compounds (as defined in Section 1.1) associated with construction of the NEL Project.

Table 3 Incorporated Document – Relevant Clauses for this Plan

Document Reference	Content requirements	Where addressed
4.12.1	Prior to the use and development of any compound, a CCP must be prepared to the satisfaction of the Minister for Planning.	This plan
4.12.2 a)	A plan showing the location and layout of the Compound and the categories of works and operations proposed within each Compound.	Section 3
4.12.2 b)	The estimated duration of activity within each Compound.	Section 1.2
4.12.2 c)	Demonstration that any Compound proposed on land which is not to be permanently acquired are reasonably required in the location in which they are proposed, including demonstration that alternatives which reduce the impact of the Compound on such land are not feasible or practical.	Section 3 Table 7
4.12.2 d)	Demonstration that the Compound (and categories of permissible works within each Compound) have been sited to avoid, then minimise, then mitigate, impacts on sensitive receptors (including residences, open space, schools, community organisations and sporting and recreation areas).	Section 3.2 Section 3.3
4.12.2 e)	Demonstration that the categories of works proposed within the Compound are appropriate having regard to whether the land is flood prone, including any flood modelling where appropriate, or has any environmental sensitivity, and that the works will be suitably managed to address any flood risk.	Section 3.4 Section 3.8.1
4.12.2 f)	Measures to restore the former use of the land used for construction once these activities are complete.	Section 4 Section 5
4.12.3	A CCP may be prepared and approved in stages but a CCP for any stage must be approved before the commencement of use and development for that stage.	Not applicable to this plan
4.12.4	A CCP may be amended from time to time, to the satisfaction of the Minister for Planning.	Section 8
4.12.5	All compounds must be located and operated in accordance with the approved CCP and relevant EPRs included in the approved EMF.	Section 3 Section 4 Section 7

2.2 Secondary Approvals for the Compound

Table 4 details the requirements of Secondary Approvals that may be necessary to establish the Compound. These requirements are in addition to all requirements in the PSDR.

Table 4 Secondary Approvals

Legislation	Responsible Authority	Approval	Purpose/ Location	Required for this CCP
Wildlife Act 1975	DELWP	Management Authorisation for the salvage and handling of fauna	Required if works will require the salvage, handling, removal or destruction of wildlife	Required for CCP004 – Native and amenity vegetation will be removed for the purposes of establishing the Compound as the location is sited within the permanent works footprint
Flora and Fauna Guarantee Act 1988	DELWP	Permit/s to take protected species	Ecology Assessment will address the need for a permit to remove protected flora on public land.	Required for CCP004 – Native and amenity vegetation will be removed for the purposes of establishing the Compound as the location is sited within the permanent works footprint
Road Management Act 2004	City of Banyule	Working within a road reserve permit	Local streets associated with the works	Not required for CCP004 - No changes or impacts to local streets
Road Management Act 2004	Department of Transport	Working within a road reserve permit	Greensborough Road may require a road reserve permit.	Not required for CCP004 - No road reserve works required for the establishment of this Compound.
Heritage Act 2017	Heritage Victoria	Permit/s to impact places on Victorian Heritage Register (VHR), and consents for impacts on places on the Victorian Heritage Inventory (VHI).	In the event that works will impact on a registered place.	No VHI or VHR places identified at the site
Victoria Planning Provisions – Banyule Planning Scheme	DELWP	NEL Incorporated Document conditions, including native vegetation removal and EPRs.	Works within the Project boundary. Removal of native vegetation (based on findings from arborist/ecologist assessment) Note: Any removal of vegetation outside the Project boundary which may be required to gain access to Project land, would need to be assessed under the Planning Scheme requirements.	Required for CCP004 – Native vegetation will be removed for the purposes of establishing the Compound as the location is sited within the permanent works footprint.
Aboriginal Heritage Act 2006		Compliance with CHMP requirements	The Compound location is located immediately adjacent to sensitive receptors including the Yarra River banks and Bolin Bolin precinct	As per the Approved CHMP there are no identified Aboriginal sensitivities at the site.

3 Structures Compound

The Lower Plenty Structures Compound (Compound) will support the Lower Plenty construction sites, involving the construction of the cut and cover structures. The Compound described in this plan is located on Greensborough Road, Yallambie in the Northern construction area.

The location of the construction site in relation to the Compound, environmental features and potentially affected receptors are shown in Figure 5.

The land is located in the municipality of Banyule City Council and includes park land and recreational facilities, residential and Commonwealth land (Simpson Barracks). All compounds are situated within the designated Project boundary.

The detailed site plan for the Compound provides further detail on the facilities to be mobilised that will be used by Spark and subcontracted staff.

Fencing and hoarding will be installed to delineate the construction site from surrounding land as shown in Figure 3 and Figure 4.

Where further amendments to this plan may be required, these are outlined in section 3.1 of this document.



Figure 2 Preferred Compound Location within the Lower Plenty Construction Site

3.1 Compound

The below outlines the Compound and facilities within, their purpose and what construction activities the Compound will support. Location and details of the Compound maybe subject to minor layout changes if generally in accordance with the approved CCP. These changes will be based on subcontractor optimisation of the Compound layout.

A summary of the Compound uses is provided below.

- Office facilities for white collar supervisory and support staff
- Training/prestart room for blue collar workers
- Lunch and crib sheds
- Bathhouse for underground workers
- Male and female ablution facilities
- First aid room
- Concrete paths below walkways
- Barriers and temporary fencing
- Hardstand, blocks and pads to land and tie down sheds
- Services connections – water, sewer, power, data
- Minor carpark
- Waste and recycling facilities.

Table 5 highlights the compound uses and the supported construction activities.

Table 5 Compound Uses and Activities

Lower Plenty Structures Compound uses	Construction activities supported by the Compound
<ul style="list-style-type: none"> ■ Office amenities for white collar workforce ■ Blue-collar workforce amenities including buildings for bathrooms, first aid and a meals/crib room ■ Holding site safety briefings each morning ■ Localised staff carparking ■ Materials storage, generally in containers, or where the storage of materials outside of the Compound would create a security risk ■ Storage of hazardous substances in compliance with AS 1940:2017 ■ Storage of tools, equipment and non-hazardous substances appropriately and banded as required ■ Worker washrooms ■ Car parking 	<ul style="list-style-type: none"> ■ Diaphragm wall construction and associated construction activities for the Lower Plenty cut and cover structure and ramps including the bentonite processing facility ■ Structural concrete works ■ Excavation of approximately 500,000 cubic meters of material from the structure location ■ TBM operations traversing the cut and cover structure ■ Borlase Reserve reinstatement works ■ Storage and laydown facilities

The below outlines and describes amendments to this plan as required by Project works.

Amendment No.	Date	Location	Description
1	23/06/23	Adjacent Lower Plenty Road	Updated Site Layout Plan to include addition of southern mini-compound adjacent to Lower Plenty Road. This mini-compound is one storey and includes 1x demountable shed (approx. 12m X 09m) for worker crib facilities, 1x first aid room, 2 x toilet block with sewage tank and 1 x water tank. All facilities will be connected



Amendment No.	Date	Location	Description
			<p>by a covered concrete walkway.</p> <p>Updates to Figure 2, Figure 5 and Appendix B have been made for this amendment. A new Figure 4 has also been included.</p> <p>Tables 2 and 9 have been updated to include mobilisation dates (Q3 2023) for the Lower Plenty Mini-Compound.</p>
2	23/10/2023	Adjacent Lower Plenty Road	Updated Detailed Site Layout Plan in Appendix B to show reconfiguration of the southern mini-compound due to position of water mains.

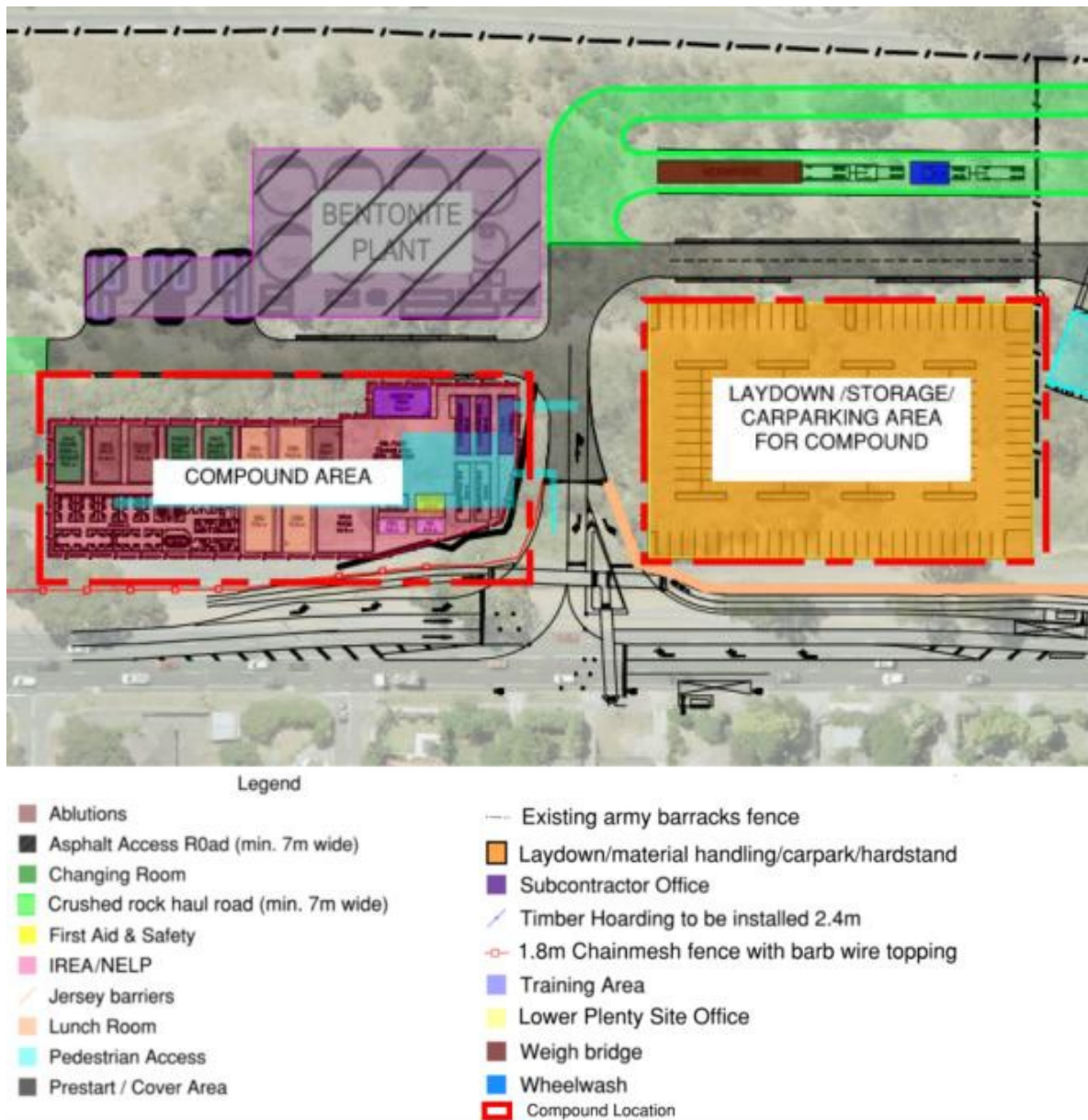


Figure 3 Lower Plenty Structures Compound

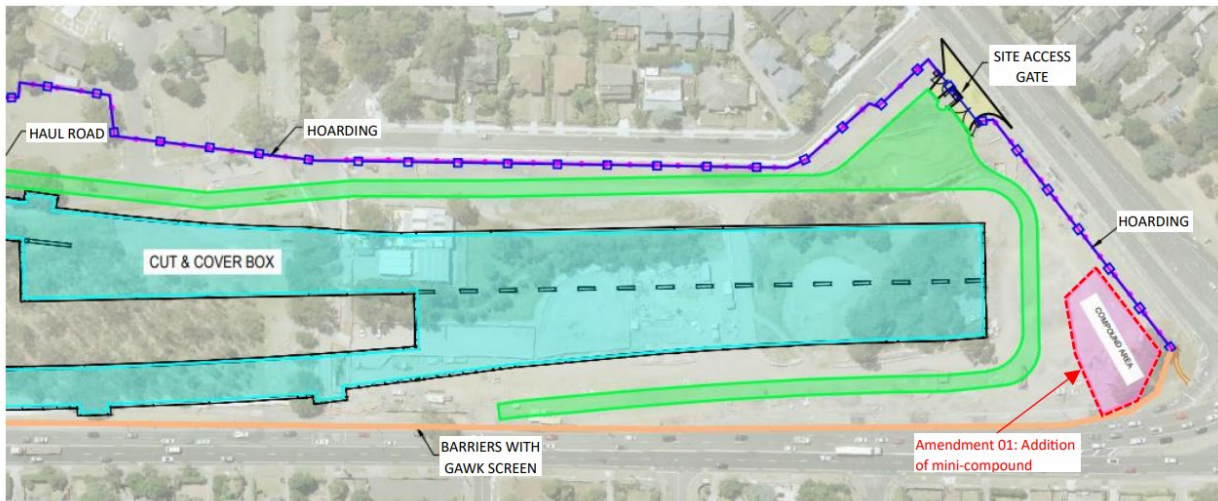


Figure 4 Lower Plenty Structures Southern Mini-Compound

A detailed site layout plan showing the Compound location extents in proximity to the construction site is included as Appendix B.

3.2 Identification of Sensitive Receptors

Clause 4.12.2 (d) of the Incorporated Document requires demonstration that the Compound has been sited to avoid, then minimise, then mitigate impacts on sensitive receptors.

The location of the Compound may have impacts on the following sensitive receptors:

- Residents on the following streets:
 - Borlase Street / Coleen Street
 - Debra Court
 - Silk Street
 - Kay Court
 - Greensborough Road
 - Drysdale Street
 - Fahey Crescent
 - Lower Plenty Road
 - Edward Street
 - Oban Way
 - Erskine Road
- Educational institutions:
 - St Martin of Tours Primary School
 - Greensborough Road Early Learning & Kinder
- Sports and Recreation Facilities:
 - Coleen Reserve
 - River Gum Walk / Banyule Creek
- Other:
 - Simpson Barracks (Department of Defence)
 - Aged care facility.

Figure 5 shows the Compound location in relation to the surrounding area and sensitive receptors.

Section 3.3 includes a discussion of how selection of the site seeks to avoid, minimise and mitigate impacts on these sensitive receptors. Further details on measures to mitigate impacts on sensitive receptors in accordance with the relevant EPRs are provided in Section 3.8.

The consultation and engagement in relation to the management of these sensitive receptors and is detailed in Section 6. All sensitive receptors and impacted stakeholders have been consulted in the finalisation of this CCP.



Figure 5 Preferred Compound Location and adjacent Sensitive Receptors

3.3 Justification of Location and Use of Compound

The selection of the location of the Compound was cognisant of the following factors and constraints:

- The land lies within the permanent design footprint of the development activities and within the Project boundary
- The Compound is able to maintain operability until Project completion and is not subject to a further move
- Minimise the clearing of existing trees, where practical, for the purposes of the Compound
- The Compound is not on public land
- The Compound is immediately adjacent to the construction works supported by the Compound which is critical to the safe and efficient construction of the cut and cover tunnel
- Be of sufficient size to allow its safe operation for the intended purpose of the Compound
- Be of sufficient size to provide the intended function for the workforce in the one locality
- Does not impede existing pedestrian and vehicular access
- Is within proximity of major public transport facilities for workforce accessibility and to minimise personal vehicle traffic
- Access to Compound via existing arterial road infrastructure only
- No impacts to existing businesses (commercial and retail) including no impacts on existing street exposure, vehicular and pedestrian access and parking amenities.

The Compound is deemed to have a minimal impact in terms of the following aspects:

Future Land Use: The Compound will be located on land within the footprint of the Primary Package works. As the compound sits within the permanent site boundary and ultimately has a road constructed within the same location, the compound will be gradually removed as works progress to allow the area to be completed in line with the UDLP. The initial footprint of the compound will need to be progressively removed for the new Greensborough Road and Tunnel ramp intersection.

Proximity to Works and Sensitive Receptors: Although the Compound is within close proximity to residential areas, the Compound is placed as far as practicable from receptors to reduce noise, vibration and lighting impacts. Consideration has been given to an appropriate long-term pedestrian/cyclist detour around the site for the duration of the construction period.

Business Impacts: Impacts to nearby businesses is expected to be minimal (Figure 5 for locations). Communication to any businesses in the wider area will be as per Section 6. A Business Disruption Mitigation Plan will be developed to address impacts to these businesses, propose mitigations and outline engagement to take place with local businesses.

Cultural Heritage: The area does not feature any direct impacts with identified Aboriginal Cultural Heritage (CHMP 15576).

Flooding: The Compound is not within a flood risk area as it is situated at least 40m from, and at least 3m above the Banyule Creek waterway 1% AEP flood event extent. Flood risk is addressed in Section 4.

Flora and Fauna/Arboriculture: The Compound has been located within the footprint of the preliminary design where vegetation will be directly impacted by construction works (i.e., not just associated with the Compound).

Key considerations relating to construction and location of the Compound are detailed below in Table 6.

Table 6 Incorporated Document requirement and details implementation

Incorporated Document Requirement	Details of Implementation – Lower Plenty Structures Compound
Avoid	<ul style="list-style-type: none"> ■ The Compound is not within a flood risk area as it is situated at least 40m from, and at least 3m above the Banyule Creek waterway 1% AEP flood event extent.
Minimise	<ul style="list-style-type: none"> ■ Minimises impact to residents on western side of Greensborough Road as Compound is sited as far as possible from residents ■ Minimises traffic impacts by providing access to the site from Greensborough Road (State Controlled) and not council controlled roads ■ Minimises impacts to residents east of the site by moving the site as far as possible from residential properties without clashing with the works ■ Tree removal is required on the preferred siting of the Compound however removal of trees and vegetation will be minimised as much as practical.

Incorporated Document Requirement	Details of Implementation – Lower Plenty Structures Compound
Mitigate	<ul style="list-style-type: none"> Mitigates flooding risk by diverting Banyule drain underground following flood assessment modelling and letter of no objection received from Melbourne Water

3.4 Alternate locations consideration

Spark considered the following locations for this site:

- Option A: The preferred Compound location
- Option B: 60m south of the preferred Compound location

No other viable alternative locations for the Compound were found to exist within the project boundary or located within a reasonable distance from the site to allow safe and efficient servicing of the construction site. Due to the proximity to the existing mobilisation compound and the future construction works area, this resulted in location proximity constraints for the Compound. No other existing land parcels were found to meet the requirements for providing site facilities adjacent to critical work areas.

Table 7 below outlines the key selection criteria used to compare and justify the choice of the preferred option and Table 8 provides an assessment of the preferred site for compliance with the Incorporated Document to avoid, minimise and mitigate.

The Lower Plenty Road Mini-Compound is situated within the designated Project boundary and has been sited to avoid, minimise and mitigate impacts to sensitive uses, noting this location was selected as it is the furthest from any sensitive receivers and close to work crews who require toilet facilities, while also being the only location to physically fit the crib rooms and facilities in the vicinity of the aforementioned works. There were no alternate areas within or adjacent to the project site that were considered to accommodate the Mini-Compound due to current critical construction activities occurring within the Lower Plenty Structures Compound and special constraints suitable to meet the requirements of site facilities adjacent to critical work areas.

Table 7 Site selection assessment

Description	Option A	Option B
Is the site within the permanent footprint of the works or has the site been allocated for use as a temporary works facility?	Yes	Yes
Is the land available when the Compound is required to be constructed?	Yes	Yes
Is the area immediately adjacent to the construction work site?	Yes	Yes
Is access to the Compound available from existing road network with suitable signalised intersections to State controlled roads?	Yes	Yes
Is the site immediately adjacent to the works area?	Yes	Yes
Are any trees required to be removed for the purposes of construction of the Compound?	Yes	Yes
Would the Compound at this location impede construction of the works including spoil handling from tunnelling operations?	No	Yes
Would the Compound need to be moved during construction?	No	Yes
Is the site the least disruptive to local residents (via location to residential properties)?	Yes	No
Is moving the Compound likely to impact the overall project duration in a negative way?	Yes	Yes
Is the site subject to flooding (LSIO)?	No The Compound is not within a flood risk area as it is situated at least 40m from, and at least 3m	No



Description	Option A	Option B
	above the Banyule Creek waterway 1% AEP flood event extent.	

Table 8 Assessment of the preferred site for compliance with the Incorporated Document to avoid, minimise and mitigate

Impact	Avoid?	Minimise?	Mitigate?	Comment
Future Land Use	✓			<ul style="list-style-type: none"> Measures to restore the former use of the land used for construction of the Compound, post-construction activities, will be undertaken in accordance with the UDLP, as required.
Proximity to Works	✓			<ul style="list-style-type: none"> Has utility provisions so connection to existing services can be done sooner Close to main construction site for site establishment activities Located within footprint of the works Location chosen is within the footprint of Spark design for NEL Project, within the Project Boundary.
Sensitive receptors		✓		<ul style="list-style-type: none"> Compound has been located as close to Greensborough Road as possible to maximise proximity distance between the Compound and residential streets
Business impacts		✓		<ul style="list-style-type: none"> Unlikely to impact local business
Cultural Heritage	✓			<ul style="list-style-type: none"> CHMP has been prepared for the site
Flooding			✓	<ul style="list-style-type: none"> Location is not subject to flood mapping overlays (floodway overlay and land subject to inundation overlay) from Banyule Creek however is low risk for flooding based on 1% AEP flood modelling. Letter of no objection received by Melbourne Water.
Flora and fauna/ arboriculture		✓		<ul style="list-style-type: none"> Tree removal is required on the preferred siting of the Compound due to location of the facility in relation to the limit of the construction site and activities, however removal of trees and vegetation will be minimised as much as practical.



Figure 6 Alternate Compound Location Considered

3.5 Work Activities and Timing

The establishment works of the Compound is anticipated to begin in Q3 2022. Once established, the Compound will remain in place until the supported construction activities are completed (expected Q4 2026), after which the site will be completed to the requirements of the approved UDLP.

It is expected to take approximately 12 weeks to establish the Compound as outlined in Table 9. These works will occur during EPR prescribed working hours outlined in Section 3.7.

Table 9 Compound (setup activities and indicative timings)

Compound	Occupation	Mobilisation Duration	Work activities
Structures Compound	September/October 2022	<p>Commencing September/October 2022 for approximately 12 weeks</p> <p>Commencing Q3 2023 for Lower Plenty Mini-Compound</p>	<p>Week 1:</p> <ul style="list-style-type: none"> ■ Setup environmental controls and monitoring for air, noise and vibration as per the WEMP ■ Temporary fencing erection, hoarding and site delineations ■ Survey and set out <p>Week 2 – 5:</p> <ul style="list-style-type: none"> ■ Level, hardstands ■ In ground services and connections commenced including trenching ■ Permanent perimeter fencing ■ Crossovers, gates and stabilise entry and exit points <p>Week 5 – 9:</p> <ul style="list-style-type: none"> ■ Preparation and sealing of carparks, line marking, signs, stops ■ Concrete walkways, footings and blocks ■ Land and assemble sheds (mobilise mobile crane to achieve) <p>Week 10 – 12:</p> <ul style="list-style-type: none"> ■ Build covered ways ■ Wiring, roofing and plumbing ■ Installation of security lighting ■ Provision and establish minor landscaping.

3.6 Operation of the Compound

The operation of the Construction Compound will be in accordance with this Plan and relevant EPRs included in the approved EMF. This Plan has been prepared in reference to the Construction Environmental Management Plan (CEMP), Communication and Community Engagement Plan (CCEP) and Construction Noise and Vibration Management Plan (CNVMP).

The Construction Compound shall support works to deliver the Lower Plenty cut and cover structures work activities. The work activities that would typically occur and be supported by the compound are detailed in Section 3.1.

3.7 Working Hours

The primary use of the Compound facilities will align with EPR prescribed working hours initially. It is anticipated that 24/7 operations will be required from commencement of TBM assembly in September 2023 until the end of tunnelling activities in June 2026.

3.7.1 EPR prescribed working hours:

- Monday to Friday: 7am to 6pm

- Saturday: 7am to 1pm.

Where night-time operation is required (including spoil removal for SEM tunnelling operations), the unavoidable works procedure of the CNVMP will apply. A summary of the unavoidable works procedure is provided as follows:

3.7.2 Unavoidable works:

Unavoidable works will be required for activities supporting underground tunnelling operations including the management of spoil.

When avoidable works are required outside EPR prescribed working hours, the Compound will be required to operate within the target guideline noise levels of the CNVMP.

If works that are to occur outside of normal working hours cannot meet the weekend or shoulder period noise targets of EPR NV3 then the activity must meet the definition of 'Unavoidable Works' and be verified as such by the IEA.

EPR NV3 provides the definition of unavoidable works; they require road or rail occupations, are emergency or safety works, involve tunnelling or demonstrate and justify a need to operate outside normal working hours and exceed the noise guideline targets. Noise modelling will be undertaken to establish predicted noise levels and noise mitigations will be implemented as per the CNVMP. The IEA must verify unavoidable works prior to commencement of the noise generating activity.

Verification that works meet the definition of 'unavoidable works' will be conducted via a combination of both case-by-case basis and one-off assessments depending on the scenario.

3.8 Unavoidable Management of Impacts

Work activities have been located to avoid impacts to sensitive receptors where possible. For example, air conditioning units have been placed so the noise generated by the units are faced away from residential receptors. Where required hoarding will be extended higher to provide further noise mitigation to residential premises.

Potential impacts associated with establishing and operating the Compound have been identified considering sensitive receptors and Compound establishment and operational activities (e.g., vegetation clearing for placement of Compound), and compliance with EPRs.

The following sections describe the application of controls associated with avoiding and mitigating impacts which will be enforced through the implementation of the project management plans required by the EPRs including the CEMP and sub plans, TMP and CCEP. The WEMP covering the Compound site will prescribe the site-specific environmental management measures to mitigate the risks and impacts in establishing and operating the Compound facilities.

3.8.1 EPR Compliance

The applicable EPRs have been addressed through development of project specific management plans or procedures and controls that will be implemented across the Primary Package and, where applicable, for this plan. The plans required by the EPR listed in Table 10 has been developed and implemented for activities associated with the Primary Package.

Table 10 Primary Package – Management Plans required by the EPR

Required Management Plans	Relevance to this Plan
Dust and Air-quality Management and Monitoring Plan (AQ1)	The Dust and Air Quality Management and Monitoring Plan details the overarching management methods and controls in relation to dust and air quality. The operations and activities within the Compound will adhere to the management plan.
Tree Removal and Tree Canopy Replacement Plan (AR1, AR3)	Tree Removal and Tree Canopy Replacement Plan outlines the broad Primary Package management procedures that will be followed by the Compound works. Definitive tree removal guidance will be outlined in the relevant WEMP. These documents will be informed by site specific arboriculture and ecological reports for trees to be removed associated with the Compound.

Required Management Plans	Relevance to this Plan
Tree Protection Plans (AR2)	A Tree Protection Plan will be followed for works within the Compound. This plan outlines management procedures in relation to site tree protection measures including establishing tree protection zones for retained vegetation. Definitive tree protection guidance will be outlined in the relevant WEMP. These documents will be informed further by site specific arboriculture and ecological reports for trees associated with the Compound that are to be protected.
Spoil Management Plan (CL1)	A Spoil Management Plan will be used to inform the management of spoil including, but not limited to: stockpiling, soil categorisation, transportation and disposal associated with works within the Compound. Site specific soil management guidance will be outlined in the relevant WEMP.
Construction Environment Management Plan (CL5)	A CEMP will be used to inform the management of hazardous chemicals including but not limited to: storage, bunding requirements associated with works within the Compound. Site specific soil management guidance will be outlined in the relevant WEMP.
Ground Movement Plan (GM2)	The Ground Movement Plan is used to assess the risk of ground movement from construction and use of the Compound. This plan will inform site specific management controls in the relevant WEMP.
Groundwater Management Plan (GW1)	The Groundwater Management Plan will be used to assess the impacts of the Compound on the groundwater in the area. This plan will inform site specific management controls in the relevant WEMP.
Heritage Management Plan (HH2)	The Heritage Management Plan will be used to assess the impacts of the Compound on heritage places. Note: Cultural heritage will be managed under the Cultural Heritage Management Plan (a primary approval – not EPR Plan).
Construction Noise and Vibration Management Plan (NV3)	The CNVMP outlines the monitoring and guidelines to minimise noise impacts on sensitive receptors. Definitive noise and vibration management guidance will be outlined in the relevant WEMP. These documents will be informed further by noise and vibration assessments where required associated with Compound and its surrounds.
Surface Water Management Plan (SW5)	The Surface Water Management Plan outlines guidelines to minimise surface water impact on nearby waterbodies. This plan will inform site specific management controls in the relevant WEMP.
Sustainability Management Plan (SCC1)	The Sustainability Management Plan is used to assess the Compound for opportunities to implement sustainable practices.
Transport Management Plan (T2)	The Compound has various interfaces with community-based pedestrians, cyclists and vehicle traffic as well as generating additional traffic due to the introduction of construction workers to the area. The Transport Management Plan addresses the transport related concerns that may arise throughout the duration of the Compound lifecycle and presents clear solutions to keep the Compound environment safe and limit impact to nearby sensitive receptors.
Flood Emergency Management Plan (SW7)	The Flood Emergency Management Plan includes measures applicable to the Compound, such as evacuation procedures to manage the impacts of flooding.

Required Management Plans	Relevance to this Plan
	<p>The Compound is subjected to a 1% AEP flood event and may require site specific flood management controls including flood modelling of the temporary facilities which are subject to Melbourne Water acceptance of impacts and mitigation conditions.</p> <p>Flood mitigations will include:</p> <ul style="list-style-type: none"> Siting of storage materials above 1:20 flood levels or with flood bund protection No stockpiling of soils on site Consideration to raised temporary buildings to provide floor level above flood levels Continuing existing flow paths to ensure no upstream or downstream flow impacts.
Communication and Community Engagement Plan (CCEMP)	The works within the construction site will be undertaken as per CCEP. CCEP has been referenced as per Section 6 of this Plan.

The requirements of these management plans, and other EPR related plans which may be applicable to this CCP, are addressed in the relevant WEMP applicable to the works area. The WEMP details the specific requirements and controls to avoid and mitigate environmental impacts resulting from the Compound activities.

3.8.2 Preliminary Risk Assessment and Identification of Impacts

The risk to sensitive receptors and the environment has been assessed as part of the preparation of this plan. Based on the work activities detailed in Section 3.6, the risks below have been identified with proposed controls to manage this risk associated with Compound structures activities.

From the assessment, some aspects of Compound establishment and operation have specific environmental and / or community sensitivities. These sensitivities, specifically air quality, ecology, arboriculture, landscape and visual, noise, surface water and waste impacts are highlighted because they are most relevant. Environmental risks and controls listed below will be further informed by pre-construction environmental assessments, these controls will then be contained in the WEMP.

All risk ratings assessed by considering likelihood and consequence of each risk in the context of the specific site locations.

Table 11 Preliminary Amenity Risk Assessment – Structures Compound

Relevant EPRs to this Compound	Environmental Aspect	Potential risks	Initial risk level
AH1	Aboriginal Heritage (AH)	<ul style="list-style-type: none"> ■ Unexpected discovery and potential disturbance or impact to cultural heritage 	Low
AQ1, AQ6	Air Quality (AQ)	<ul style="list-style-type: none"> ■ Dust generation causing potential human health impacts ■ Deposition on buildings and vehicles ■ Odour 	Low
AR1, AR2, AR3, FF1, FF2, FF3, FF4, FF5, FF6, FF9, FF10	Arboriculture (AR) / Flora and Fauna (FF)	<ul style="list-style-type: none"> ■ Retained trees within the Compound area are impacted ■ For the Compound there are native trees and amenity trees impacted by the location 	Medium
LV2, LV3	Landscape and Visual (LV)	<ul style="list-style-type: none"> ■ Light spill during the use of Compound office outside of the EPR prescribed 	Low

Relevant EPRs to this Compound	Environmental Aspect	Potential risks	Initial risk level
		working hours resulting in impact on sensitive receptors	
NV3, NV4, NV10	Noise and Vibration (NV)	<ul style="list-style-type: none"> ■ Nuisance noise generated by operation of the Compound ■ Community concern/complaint ■ Noise impact from morning pre-starts ■ The Compound will likely operate outside EPR prescribed hours 	Medium
SW1, SW3, SW5, SW6, SW7, SW12, SW14, SW15, SW8, CL5	Surface Water (SW)	<ul style="list-style-type: none"> ■ Adverse impacts to water quality ■ Adverse impacts to aquatic flora and fauna ■ Disturbance of watercourse stability, waterway modification ■ Uncontrolled release of poor-quality water (turbid, high/low pH, other) ■ Storage, bunding requirements associated with works within the Compound. 	Medium
LP1	Land Use Planning	<ul style="list-style-type: none"> ■ Land use impact to residents 	Low
SC1, SC2, SC3, SC4, B1, B2, B3, B4, B6, B7, B8	Social and Community/ Business	<ul style="list-style-type: none"> ■ Impacts on formal active recreation and other facilities including childcare centres. ■ Amenity impacts on businesses impacted by the Compound ■ Damage to utility assets ■ Impacts to nearby businesses 	Medium
SCC1, SCC2, SCC4, SCC5	Sustainability and Climate Change	<ul style="list-style-type: none"> ■ Environmental impacts associated with waste facilities at the Compound. ■ Environmental impacts associated with resource consumption. 	Low
T2, T5	Traffic and Transport	<ul style="list-style-type: none"> ■ Impacts to the community in relation to pedestrian and cyclist infrastructure, shared user pathways, public transport routes. parking and access to local roads. ■ Impacts to operational capacity of the local road network and intersections. 	Med

These risks including controls and mitigation strategies will be further detailed in the WEMP applicable to this work area. The WEMP details the specific requirements and controls to avoid and mitigate environmental impacts resulting from the Compound activities.

4 Management of Environmental Sensitivities

From the environmental risk and EPR compliance assessment, some aspects of the Compound have specific environmental and/or community sensitivities. These sensitivities and their risks and controls are addressed in Table 12.

Table 12 Residential Risk Assessment – Preferred Compound Location

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
Aboriginal Heritage (AH)				
AH1	<ul style="list-style-type: none"> Unexpected discovery and potential disturbance or impact to cultural heritage 	Low	<ul style="list-style-type: none"> All works shall be managed in accordance with the approved CHMP 15576. Spark will comply with the CHMP requirements and in consultation with the Registered Aboriginal Party and First Peoples – State Relations Cultural heritage inductions will be provided for all personnel involved in ground disturbing activities associated with the establishment works for the Compound. 	Low
Air Quality (AQ)				
AQ1	<ul style="list-style-type: none"> Dust generation causing potential human health impacts Deposition on buildings and vehicles Odour 	Low	<ul style="list-style-type: none"> Controls will be informed by management plans required by the EPR (Table 7) and included in further detail in the WEMP. Dust generation will be kept to a minimum when establishing the Compound. Compound to be asphalted/sealed roads to minimise dust associated with vehicle movements Wheel wash facilities will be installed at site entry and exit points During construction of the Compound, dust mitigation techniques will be used including water carts to minimise impacts on sensitive receptors Mud tracking and dust on roads to be minimised through use of stabilised site exits established prior to the construction of the Compound. Weather conditions when Compound establishment activities occur will reduce the risk of nuisance dust been generated Incentives will be devised to seek to increase the proportion of on-road heavy vehicles that comply at a minimum with Euro V European emission standards within the Project's construction haulage fleet over the construction life of the Project. Street sweeper (where required). 	Low
Arboriculture (AR) / Flora and Fauna (FF)				
AR1, AR2, AR3, FF1, FF2, FF3, FF4, FF5, FF6, FF9, FF10	<ul style="list-style-type: none"> Retained trees within the Compound area are impacted For the Compound there are native 	Med	<p>An ecological assessment will be undertaken prior to works commencing to:</p> <ul style="list-style-type: none"> Determine the requirement for a permit under the Flora and Fauna Guarantee Act 1988 (FFG Act), these will be obtained as required 	Low

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
	trees and amenity trees impacted by the location.		<ul style="list-style-type: none"> ■ Assess native vegetation impacts to inform the 'avoid and minimise' statement which will articulate the steps taken to avoid and minimise impacts to native vegetation as part of the design and construction of the Compound ■ Map the location of native fauna habitat that will require supervision during site establishment to ensure compliance with the Wildlife Act 1975 and Fisheries Act 1995 <p>A report will be prepared detailing the results of the assessment, requirements for a FFG permit, avoid and minimise statement, offset calculations in accordance with the Guidelines for the removal, destruction or lopping of native vegetation (DELWP 2017), and a map showing the location of fauna habitat requiring supervision during site clearing. The ecological assessment will be included in the WEMP.</p> <p>Prior to any disturbance, clearing or grubbing activities in any locations the following must be in place:</p> <ul style="list-style-type: none"> ■ An internal Permit to Clear (including pre-clearing checklist). Followed by a post-clearing checklist ■ No Go Zones for significant flora and fauna must be established and TPZs, fenced/flagged and sign posted prior to commencement of clearing. (FF1, AR2) ■ A wildlife catcher/spotter with Management Authorisation under the Wildlife Act 1975 must conduct a search for any wildlife that may need to be removed and relocated, immediately prior to habitat removal. <p>There are no EMF No Go Zones in the proximity of the Compound. Any additional No Go Zones established for the Compound area, such as native vegetation/trees to be retained, are to be fenced. These additional No Go Zones are to be determined by the ecology assessment and shown on the WEMP. Any damage to No Go Zone fencing, or signage must be reported to supervisor or Environment Manager immediately.</p> <p>In regard to arboriculture management for the Compound the following documents will be used to outline management procedures and methodologies in compliance with the EPRs:</p> <ul style="list-style-type: none"> ■ AR1: Tree Removal and Tree Canopy Replacement Plan ■ AR2: Tree Protection Plan ■ CEMP. <p>A detailed arborist assessment will be undertaken prior to works commencing to determine the exact extent of tree impacts due to the Compound. Prior to any tree removal works an ecological and arborist assessment of the Compound is to be undertaken and records to be taken of proposed removals. All tree removals as per the Tree Removal Plan are to be approved by the State. Coordination of tree removal will be undertaken between the site works team, Project Environmental</p>	

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
			<p>Representative and a qualified arborist to ensure that tree removal is minimised during the site Compound setup works. Records will be maintained for any removals in order to meet EPR AR1. All trees that will remain in the Compound will be protected by temporary fencing in accordance with the TPZ requirements in the Tree Protection Plan. Tree Protection Fencing where required is to be installed in accordance with AS 4970-2009 Protection of trees on development sites and the following methodology:</p> <ul style="list-style-type: none"> ■ To the extent agreed to with the Environment Team and or the Project Arborist ■ Constructed from 1.8m temporary fence panels or paraweb fencing that is secured to metal pickets using fencing wire or similar. ■ Braced as required to provide an adequately robust structure, and signage used to designate area as TPZ/No Go Zone ■ Controls will be informed by management plans required by the EPR (Table 7) and included in further detail in the WEMP ■ Retaining trees would improve shading and reduce cooling requirements in the site facilities ■ Further ground truthing and survey work is required to refine tree impacts, a project arborist is to be engaged to identify trees for retention and removal on-site ■ Locate portable crib huts to act as ground protection ■ Access to the Compound is to be carefully planned to avoid other native trees outside of the Compound boundary ■ Established Tree (and / or vegetation) Protection Zone (TPZ) Fencing in accordance with the Tree Protection Plan ■ Project arborist to supervise any works including installing crib huts under tree canopies. <p>The Compound is located within the footprint of preliminary design for NELP Project, therefore there will be no additional long-term impact as the result of this selected location.</p>	
Landscape and visual (LV)				
LV2, LV3	<ul style="list-style-type: none"> ■ Light spill during the use of Compound office outside of the EPR prescribed working hours resulting in impact on sensitive receptors 	Low	<ul style="list-style-type: none"> ■ Where the Compound is in operation outside of EPR prescribed working hours, lighting towers/security lighting will be angled and placed to avoid impact on nearby sensitive receptors. Perimeter fencing/hoarding to be installed around the Compound. ■ Vegetation to be retained where possible to minimise light spill. 	Low
Noise and Vibration (NV)				

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
<p>NV3, NV4, NV10</p>	<ul style="list-style-type: none"> ■ Nuisance noise generated by operation of the Compound ■ Community concern/complaint <p>Noise impact from morning pre-starts The Compound will likely operate outside EPR Prescribed working hours</p>	<p>Med</p>	<p>Noise modelling Noise modelling will be conducted for the Compound as per the CNVMP considering the following factors:</p> <ul style="list-style-type: none"> ■ Whether the use of multiple plant items simultaneously is proposed ■ The existing level of ambient noise in the receiving environment. ■ Whether or not night-works will occur at the location ■ Duration of works, e.g., is it likely that a receptor will experience multiple days/ nights of exposure to noise from a site? ■ Whether use of high impact plant / activities (piling, pipe jacking, hammering, auger, vibratory roller, other tunnelling equipment, generators, excavation, rattle gun, compaction etc.) are proposed at the site ■ Is the separation distance between the works and the nearest receptors less than 200 metres ■ Whether or not there is natural shielding between the works and nearest receptors <p>The aim of the construction noise modelling is to determine whether predicted noise levels will exceed noise management levels for site scenarios and the expected level of exceedance. The noise model outputs shall be used to inform of any additional mitigations that should be implemented. Noise mitigations and controls are outlined in the CNVMP based on the findings of noise models.</p> <p>Noise monitoring Based on the results from the noise modelling, noise monitoring will be undertaken during works at select locations. These locations are to include the closest sensitive receptors that will be impacted by the works. Noise monitoring results shall be used to validate the model, inform actions, mitigations and controls as required and results will be provided to NELP for review as requested or required, on a regular basis. Throughout the duration of the project noise monitoring will be undertaken during the following instances:</p> <ul style="list-style-type: none"> ■ In response to community enquiries: noise monitoring may be undertaken in response to noise related complaints/enquiries to determine compliance with the construction noise limits as specified in Environment Protection Authority Victoria (EPA) Publication 1254, Noise Control Guidelines ■ Out-of-hours works and checking against noise modelling set for the project: Where scheduled works are outside of normal EPR Prescribed Working hours and unavoidable works, noise monitoring will be performed to check against background noise levels or against desktop noise modelling predictions ■ Construction spot checks: Construction spot check will be undertaken sporadically, during both day and night works, using a hand-held 	<p>Low</p>

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
			<p>noise meter or a tripod setup with a noise meter. The measurement must be a 10-minute LAeq with extraneous noise such as road traffic excluded as best as possible for measurement. The LA90 and LA10 should also be recorded.</p> <p>Noise mitigation measures As per CNVMP, noise is to be minimised as much as reasonably possible throughout all construction works. As a result, the following noise controls will be implemented where reasonable throughout the Compound setup and operations.</p> <ul style="list-style-type: none"> ■ Site inductions – environmental inductions shall include introduction to noise limits and controls, hours of work, locations of sensitive receptors. ■ Set site entry and egress points as far from sensitive receptors as practically possible. ■ Behavioural practices - toolbox training to encourage the minimisation of noisy behaviour including: shouting or loud radios, no dropping materials from height and slamming of door. ■ Selection of plant considers noise impacts and quieter plant is selected (where possible). There are not too many options available to do so for the Compound setup and operations as there is not a significant amount of plant to be used. An example of this would be selections of power generators that are silenced. ■ Avoid using plant and equipment simultaneously adjacent to sensitive receptors where reasonably practical. The combined noise/vibration levels could be significantly less when sources operate separately. ■ Letter drops and or door knocks, where appropriate, to notify receptors of potentially noisy upcoming works, where impacts are expected to be audible, and to discuss proposed mitigation. ■ Additional noise management controls are available as per CNVMP. <p>Controls will be informed by management plans required by the EPR (Table 7) and included in further detail in the WEMP. All works shall meet noise guideline target levels within NV3 If unavoidable works are required, the process as outlined in Section 3.6 of CCP is to be followed. Out-of-hours works and checking against noise modelling set for the project: Where scheduled works are outside of normal EPR prescribed working hours and unavoidable works, noise monitoring will be performed to check against background noise levels or against desktop noise modelling predictions if required. The Compound is away from residential sensitive receptors. Any noise generated from the Compound is likely to be masked by construction site noise. Further pre-construction assessment to be undertaken to assess construction related noise in combination with long-term Compound operation.</p>	

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
Surface Water (SW)				
SW1, SW3, SW5, CL5	<ul style="list-style-type: none"> Adverse impacts to water quality Adverse impacts to aquatic flora and fauna Disturbance of watercourse stability, waterway modification Uncontrolled release of poor-quality water (turbid, high/low pH, other) Storage of hazardous substances 	Med	<p>A desktop assessment has been made using relevant NEL Tender flood modelling. The Compound is not within a flood risk area as it is situated at least 40m from, and at least 3m above the Banyule Creek waterway 1% AEP flood event extent. Residual Risk Assessment Controls will be informed by management plans required by the EPR (Table 7) and included in further detail in the WEMP. The Compound does not fall within the Land Subject to Inundation (LSIO) overlay. Installation of controls prior to construction of the Compound as per WEMP, including drainage controls to be installed to prevent water quality impacts of the Banyule Creek and drain catchment. Activities / temporary structures within the Compound will be situated away from drainage points as far as practical including hazardous substances which will be banded as appropriate.</p>	Low
Land Use Planning				
LP1	<ul style="list-style-type: none"> Land use impact to residents 	Low	The impacts to residents have been minimised in terms of establishing and occupying the Compound within the NEL design footprint.	Low
Social and Community/ Business				
SC1, SC3, SC4, B1, B2, B3, B4, B6, B7, B8	<ul style="list-style-type: none"> Impacts on formal active recreation and other facilities including childcare centres Amenity impacts on businesses impacted by the Compound Damage to utility assets Impacts to nearby businesses 	Med	<p>Refer to Section 6 regarding working with sensitive receptors, residents, local council and attending business liaison groups (B8). The Business Disruption Mitigation Plan will be developed (B1) and Spark will contribute to the business relocation strategy (B2). Protect or, where required, relocate utility assets to the reasonable satisfaction of the service provider and/or asset owners.</p>	Low
Sustainability and Climate Change				
SCC1, SCC2, SCC4, SCC5	<ul style="list-style-type: none"> Environmental impacts associated with waste facilities at the compound Environmental impacts associated with resource consumption 	Low	<ul style="list-style-type: none"> Controls will be informed by management plans required by the EPR (Table 7) and included in further detail in the WEMP Project has a target of 60% office waste diversion Rainwater tasks to be added where space allows Connecting the Compound to electrical mains and purchasing 100% green power Use of solar light towers when required A Sustainability Management Plan will be prepared in accordance with SCC1 and will provide management procedure to comply with SCC4 and SCC5 	Low

Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
			<ul style="list-style-type: none"> ■ Suitable and sufficient receptacles (bins, skips, tanks, etc.) provided at the Compound to facilitate correct segregation of waste. All receptacles to be labelled and used correctly to avoid contamination ■ No overfilling of bins on site, regularly scheduled waste disposal ■ Including sustainability opportunities that contribute towards Spark’s sustainability targets associated with the Compound facilities including parks and concrete walkways (e.g., recycled asphalt pavement, recycled content (excluding RAP), absolute reduction in material use for pavement, use of carbon neutral or low-carbon products), Site offices – opportunity for achieving lsv2.1 Wfs-4 Sustainable Site facilities credit 	
Traffic and Transport				
T2	<ul style="list-style-type: none"> ■ Impacts to the community in relation to pedestrian and cyclist infrastructure, shared user pathways, public transport routes. Parking and access to local roads. ■ Impacts to operational capacity of the local road network and intersections. 	Med	<p>A Work Site Traffic Management Plan (WTMP) and supporting drawings will be developed in accordance with EPR T2 addressing the traffic engineering characteristics of the Compound, with due consideration to all modes of movement, access arrangements, car parking, construction vehicle movement, pedestrian and cyclist infrastructure and public transport provisions. Entry to the Simpson Barracks via Blamey Road must always be provided, planned disruptions to sensitive receptors such as the Simpson Barracks will require State approvals.</p> <p>A TIA will further support the documentation investigating impact to the operational capacity of the adjacent road network along with the abovementioned considerations.</p> <p>This documentation will be subject to review and approval by the relevant road authorities under the Road Management Act 2004 and will be approved prior to commencement of establishment of the Compound.</p> <p>Controls will be informed by management plans required by the EPR (Table 7) and included in further detail in the WEMP.</p> <p>Sufficient off street parking to be established within site boundary and adjacent to the Compound for associated workforce and visitors.</p> <p>WTMPs detailing site layout and any impacts to amenity will be subject to review and approval by the responsible road authority.</p> <p>WTMP’s illustrating changes to the road network operational capacity will be supported by traffic analysis where relevant.</p> <p>Existing bus stops located adjacent to the Compound will be maintained and available to the public and workforce or alternate arrangement implemented as approved by the relevant road authority.</p> <p>Site inductions will detail impacts of construction traffic on the local community. Parking in residential streets and businesses surrounding the site will not be permitted. Staff will be encouraged to use public transport.</p>	Low



Relevant EPRs to this Compound	Potential risks	Initial risk level	Key controls	Residual risk level
			Existing pedestrian and cyclist arrangements to be maintained or alternate arrangement implemented as approved by the relevant road authority. Project communications strategy will keep community informed of forthcoming changes. For the Compound, the internal access road that is existing will be stabilised to allow for construction vehicles to use. Entry to the Simpson Barracks via Blamey Road must always be provided, planned disruptions to sensitive receptors such as the Simpson Barracks will require State approvals.	

The requirements of these management plans, and other EPR related plans which may be applicable to this CCP, are addressed in the WEMP applicable to this works area. The WEMP details the specific requirements and controls to avoid and mitigate environmental impacts resulting from the Compound activities.

All risk ratings including in Table 12 above have been assessed in accordance with the Project Risk Management Plan.

5 Site Demobilisation and Restoration

The Compound is located within the footprint of permanent works that is currently undergoing detailed design.

No work is proposed outside the permanent works footprint.

Once established, the Compound will remain in place until the supported construction activities are completed (expected 2026). The site will be permanently occupied by the permanent footprint and will be completed to the requirements of the approved UDLP.

The Compound will be demobilised at the end of Project works or at completion of related site activities.

Where temporary materials from the Compound are removed from site, options to reuse or recycle materials will be considered.

6 Communications, Stakeholder and Community Engagement

6.1 Stakeholder and Community Engagement Approach

A number of environmental and community impacts are identified in Section 3.8.2 and proposed mitigations are identified in Section 4.

Spark has consulted with nearby residents and businesses to seek feedback on the proposed use of the Compound and any proposed mitigation strategies.

The following information was shared with the residents and businesses during the consultation period:

- The Compound will support the construction works in the area including the northern roadworks, piling activities, major excavations and project finishing works.
- There may be impacts as Spark operates the Compound.

The Compound will contain amenities and facilities required for employees at the Compound, as well as an office, pathways, hardstands for sheds and parking, laydown and storage areas, a car park and waste and recycling facilities.

Work activities have been located to avoid impacts where possible. However, there may still be impacts such as dust, noise, vegetation removal, lights at night, light vehicles and trucks in the area when we start work.

Spark will implement mitigations such as hoardings, light shields, concrete /asphalt / sealed areas to control the impacts as far as practicable

The impacts for the Construction Works outside the Compound will be managed through a WEMP.

In addition to consultation with residents and businesses, the following key stakeholders will be advised of plans for the Compound in regular meetings:

- Banyule City Council
- Melbourne Water
- Department of Defence
- Department of Transport
- Community Liaison Groups
- Business Liaison Groups.
- Wurundjeri Woi-wurung Cultural Heritage Aboriginal Corporation

A summary of stakeholder and community and stakeholder feedback is attached with this submission to DELWP.

6.2 Contact Numbers

Big Build Contact Centre: 1800 105 105

6.3 Complaint Management

Table 13 Complaint Management Requirements and Responsibilities

Expectations	How we will meet the Expectations (minimum requirements)	Responsible Person Key Contributor	Deliverables
Procedures are established for effectively dealing with community enquiries and complaints. In adherence to EPR EMF4	Contractors Enquiry and Complaints Procedures In accordance with AS/NZS 10002-2014 Guidelines for complaint management in organisations, and EPR EMF4 the complaint management system ensures guidelines are in place for the effective and consistent handling of complaints related to the operations of our projects. This process is not applicable to disputes referred for resolution under contractual arrangements or for employment-related disputes. Resolving complaints at the earliest opportunity in a way that respects and values the person's feedback, can be one of the most important factors in recovering the person's confidence about our organisation and the services we provide. It can also help prevent further	Stakeholder and Community Engagement Manager Stakeholder and Community Engagement team Functional Manager(s)	Procedures delivered and verified in CCEP

Expectations	How we will meet the Expectations (minimum requirements)	Responsible Person Key Contributor	Deliverables
	<p>escalation of the complaint. A responsive, efficient, effective and fair complaint management system can assist an organisation to achieve this.</p> <p>The system applies to all staff receiving or managing complaints from the public made to or about us, regarding our services, staff and complaint handling.</p>		
<p>Enquiries and complaints are recorded, acknowledged and resolved in a timely manner as per EPR EMF4.</p>	<p>Project Enquiries and Complaints Consultation Manager will be used as the register for all complaints and enquiries. At a minimum the following information will be recorded:</p> <ul style="list-style-type: none"> ■ Interactions via the project number ■ Interactions via the project email address ■ Interactions received via the project webpage ■ Interactions in person ■ Interactions via all other means. <p>Spark Contractors will:</p> <ul style="list-style-type: none"> ■ resolve all complaints, enquiries or contacts where they refer to an issue directly related to the works ■ adhere to the agreed escalation process ■ notify the PM immediately (for a complaint) or within 24 hours (for all other classifications) if the complaint, enquiry or contact cannot be resolved or if not directly relevant to the works. <p>All information captured will be managed in accordance with privacy policies. Complaints and enquiries will be incorporated into monthly reporting and used to identify current and emerging issues that require action. Outstanding enquiries and issues will be discussed at weekly project team meetings. As per the project scope requirements, all complaints will include:</p> <ol style="list-style-type: none"> (1) names (where provided); (2) contact details (where provided); (3) time and date of enquiry; (4) nature of enquiry; and (5) response provided; <p>The Principal Package team will notify the State within 2 hours of receiving or becoming aware of any:</p> <ol style="list-style-type: none"> (1) significant community and Stakeholder issues related to the Works (including issues that will likely lead to impacting the project’s reputation and safety matters); (2) enquiries that may affect the projects reputation; (3) complaints received, including the information collected on the Consultation Manager Stakeholder Management Database as set out in Section 11.6(b), as well as: <ol style="list-style-type: none"> a) the location to which the complaint relates; and b) the method of contact; and c) Always comply with the North East Link Privacy Policy and any associated policies and notify the State immediately of any suspected breaches of privacy or Personal Information held by the State or the Spark D&C. 	<p>Stakeholder and Community Engagement Manager Stakeholder and Community Engagement team Functional Manager(s)</p>	<p>NELP enquiry and complaints procedures adhered to. Monthly report of all enquiries and complaints. Maintain all correspondence in Consultation Manager</p>

7 Spark Environmental Management System (EMS)

The Spark EMS for the Primary Package is certified and implemented to the standard AS/NZS ISO 14001:2016 Environmental management systems, in compliance with the requirements of the EMF.

The Spark EMS (Figure 7) follows the standard Plan-Do-Check-Act approach to environmental management.

Plan: Establish environmental objectives and processes necessary deliver NEL. Spark has extended the objectives, targets, and risk mitigation measures in the EES into the Spark EMS. This process ensures the objectives of the State and Spark are aligned through all phases of the Project.

Do: Execute the Project as planned and in accordance with the EPRs and objectives and targets.

Check: Monitor the processes and procedures against the objectives and targets and report findings and recommendations.

Act: Update processes in response to monitoring activities, non-conformances, and recommendations.

Spark's EMS for the Primary Package comprises a hierarchy of the Environmental Strategy, CEMP, WEMPs and environmental procedures to effectively mitigate risk and monitor environmental performance and compliance at every level of construction.

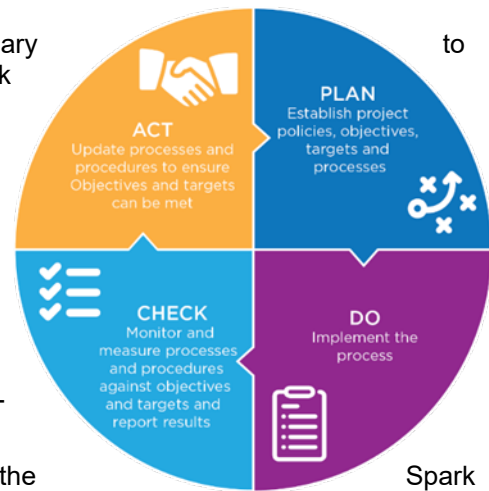


Figure 7 Spark Environmental Management System Framework

7.1 Environmental Strategy

The Environmental Strategy outlines the approach which will be implemented to ensure compliance with the NEL Project environmental requirements including environmental laws, project approvals, approval conditions and the EPRs relevant to the Primary Package, that will be implemented through the CEMP and other management documents (e.g., WEMPs, Urban Design and Landscape Plans).

The purpose of the Environmental Strategy, specifically in relation to this plan, is to provide:

- A summary of key approvals applicable to the NEL Project and how these are complied with and managed.
- An overview of the management documents that will be prepared to support the implementation of this plan and other environmental documentation.
- A summary of each EPR and how these will be complied with including proposed actions, timing, consultation, proposed management plans and evidence of compliance (a summary is provided in Section 3.8 of this plan).

7.2 Construction Environmental Management Plan (CEMP)

The Spark CEMP has been prepared to manage the environmental risks from construction activities related to the Primary Package. All works within this plan shall be undertaken in accordance with the CEMP.

The CEMP includes environmental management sub plans that detail the measures that will be undertaken for the Primary Package to address the applicable EPRs for environmental management during construction.

The environmental management requirements of the CEMP and sub plans will be implemented to address relevant localised requirements of each compound, including by the preparation and implementation of the WEMPs. The WEMPs will cover each of the Compound and the relevant construction activities that are supported by the Compound. Implementation of the WEMPs is supplemented by Spark environmental management procedures. These procedures include environmental inspection checklists that will be applied to monitor the installation and maintenance of environmental controls for the Compound in accordance with environmental controls and mitigation measures of the CEMP and environmental management sub plans and monitor compliance of the applicable EPRs (as listed in Section 3.8).

Throughout the implementation of the Primary Package, project environmental monitoring, auditing, and performance reporting shall be conducted as directed by the requirements prescribed in the CEMP.

7.3 Environmental Management Framework (EMF)

The NEL Project EMF is approved under Clause 4.5 of the Incorporated Document dated December 2019.

The EMF provides a transparent and integrated governance framework to manage the planning, environmental and heritage aspects of the Compound works, and outlines the accountabilities for the delivery and monitoring of implementation of the EPRs.

7.4 Worksite Environmental Management Plan (WEMP)

A WEMP is prepared in line with specific construction work packages and are subordinate to the Construction Environmental Management Plan. They are supported by Site Environment Plans (SEPs) which describe how environmental aspects and impacts will be managed at each area of site for each construction activity or stage. A Site Environment Plan (SEP) will be prepared for each work stage identifying relevant work activities prior to works commencing.

7.5 Independent Review and Environmental Auditor (IEA)

EPR EMF3 'Audit and report on environmental compliance' requires that an Independent Review and Environmental Auditor (IEA) is appointed to review Project management plans and documentation and to undertake environmental audits of compliance with and implementation of the EPRs and environmental plans.

The EMF states that the IEA shall review and verify contractor's compliance with the EMF, Environmental Strategy, EPRs, WEMPs, and Incorporated Document. The IEA will provide verification that this CCP complies with the requirements of these approvals and documents.

Appendix A contains the IEA verification for this plan.

These requirements, and other EPR related plans which may be applicable to this CCP, are addressed in the Worksite Environmental management Plan (WEMP) applicable to this works area. The WEMP details the specific requirements and controls to avoid and mitigate environmental impacts resulting from the Compound activities



8 Review

A Spark internal review of this plan will be conducted as required or when specifically directed by the State or when there is a major change in Compound facilities and/or operations that arises increased environmental risk. This is to ensure consistency of the works with the details and management procedures outlined in this plan. Additionally, this plan will be reviewed in accordance with the CEMP. Any update to the CCP will be subject to the satisfaction of the Minister for Planning.



Appendix A. IREA Verification



APP Corporation Pty Limited
Level 7, 420 St Kilda Road
Melbourne VIC 3004

Arup Australia Projects Pty Ltd
C/- Boroughs, Level 6,
77 Castlereagh Street,
Sydney, NSW 2000

Aurecon Australasia Pty Ltd
Level 8, 850 Collins Street,
Docklands, VIC, 3008

Reference: TX-CNT-AAA-03316

Tuesday, 31 October 2023

Jim Waller

Chief Operating Officer
North East Link Project
Level 13, 121 Exhibition Street, Melbourne VIC 3000

Paul Yerondais

Chief Executive Officer
Spark North East Link Pty Limited as trustee of the Spark North East Link Trust
Level 14, Tower Three
International Towers Sydney, Exchange Place 300 Barangaroo Ave
Barangaroo NSW 2000

Dear Jim and Paul,

Re: Review and verification of Lower Plenty Construction Compound Plan (CCP) - Structures Compound

The IREA has reviewed the Lower Plenty Construction Compound Plan (CCP) - Structures Compound (NEL-CNT-SDC-2990-EPA-PLN-0004) Rev 1.04 in accordance with the PSDR Part F1 Section 1.11.

It is our opinion that the Construction Compound Plan complies with the Environmental Requirements and the Project Documents for the defined scope of works.

Yours sincerely,

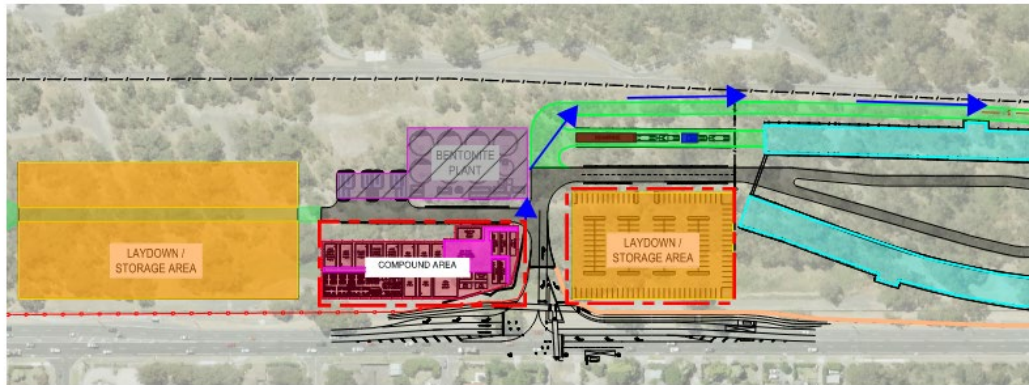
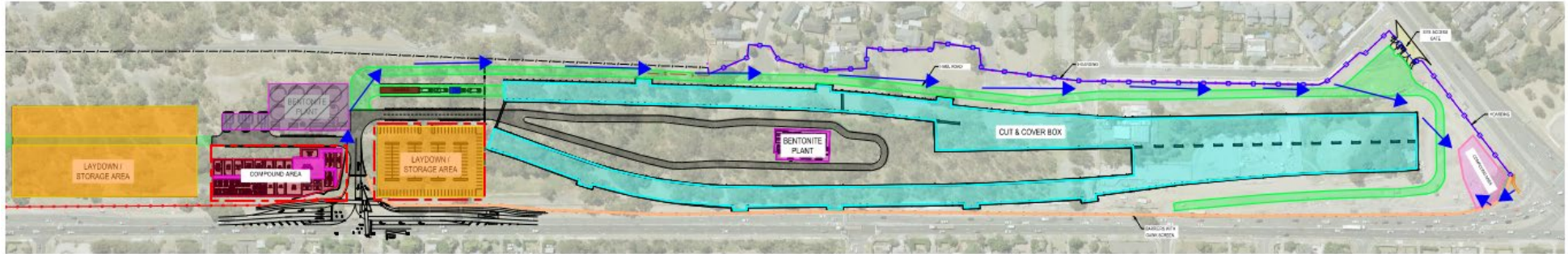
A handwritten signature in blue ink that reads "David Baigent".

David Baigent
IREA Project Director
AAAJV



Appendix B. Indicative Compound Site Layout

LOWER PLENTY SITE LAYOUT



LEGEND

- | | |
|---------------------------------------|---|
| Ablutions | Existing army barracks fence |
| Asphalt Access Road (min. 7m wide) | Laydown/material handling/carpark/hardstand |
| Changing Room | Subcontractor Office |
| Crushed rock haul road (min. 7m wide) | Timber Hoarding to be installed 2.4m |
| First Aid & Safety | 1.8m Chainmesh fence with barb wire topping |
| IREA/NELP | Training Area |
| Jersey barriers | Lower Plenty Site Office |
| Lunch Room | Weigh bridge |
| Pedestrian Access | Wheelwash |
| Prestart / Cover Area | Compound Location |

