

Construction Environmental Management Plan (CEMP)

**Transport for NSW
Supply, Operate, Maintain (SOM) Package
Parramatta Light Rail**
September 2020
PLR1SOM-GLR-ALL-PM-PLN-000014 Rev 3

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About this release

Title	Supply, Operate, Maintain Construction Environmental Management Plan
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Version	Date	Prepared By	Approved By
A	10 April 2019	Advisian on behalf of GRCLR	
B	3 March 2020	Mott MacDonald Australia Pty Ltd on behalf of GRCLR	
C	6 April 2020	Mott MacDonald Australia Pty Ltd on behalf of GRCLR	
D	6 May 2020	Mott MacDonald Australia Pty Ltd on behalf of GRCLR	
E	13 May 2020	Mott MacDonald Australia Pty Ltd on behalf of GRCLR	
F	20 July 2020	GRCLR	
G	31 July 2020	GRCLR	
H	24 August 2020	GRCLR	
0	26 August 2020	GRCLR	
1	27 August 2020	GRCLR	
2	29 September 2020	GRCLR	
3	30 September 2020	GRCLR	

Construction Environmental Management Plan

Parramatta Light Rail – Stage 1

September 2020

PLR1SOM-GLR-ALL-PM-PLN-000014

Version control

Revision	Date	Description
A	10 April 2019	Advisian on behalf of GRCLR
B	3 March 2020	Mott MacDonald Australia Pty Ltd on behalf of GRCLR
C	06 April 2020	Updated to address TfNSW and ER comments
D	06 May 2020	Updated to address TfNSW and ER comments
E	13 May 2020	Updated to address TfNSW comments
F	20 July 2020	Updated to address TfNSW comments
G	31 July 2020	Updated to reflect more recent Staging Report (Revision 6.03)
H	24 August 2020	Updated to reflect close out of Stakeholder Consultation
0	26 August 2020	Updated to reflect ER endorsement
1	27 August 2020	Updated to include Consultation Report
2	29 September 2020	Updated to address DPIE comments
3	30 September 2020	Updated to address ER comments

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Glossary / Abbreviations

Abbreviation	Expanded Text
AA	Acoustics Advisor
AHMP	Aboriginal Heritage Management Plan
Ancillary facility	A facility established for construction of the project which will be decommissioned at the end of construction, which may include an office and amenities compound, construction compound, material crushing and screening plant, materials storage compound, maintenance workshop, testing laboratory and material stockpile area
AQMP	Air Quality Management Plan
ASS	Acid sulphate soils
CAF	Construcciones y Auxiliar de Ferrocarriles
CAP	Construction Area Plan; the main document prepared during the construction planning for that work area. Includes construction methodology, risk assessment, constructability reviews and Work Pack listing
CBD	Central business district
CCS	TfNSW Project Community Communication Strategy
CEMP	Construction Environmental Management Plan
CLM Act	<i>Contaminated Lands Management Act 1997</i>
CLMP	Contaminated Land Management Plan
Compliance audit	Verification of how implementation is proceeding with respect to a CEMP, which incorporates the relevant approval conditions
CoA	Minister's Conditions of Approval
Construction Area	A separable portion of work that is identified early in construction planning to help drive early definition of construction methodology and alignment of design activities. Work Areas should be listed in the overall construction methodology. The planning document for a work area is called a CAP
CSSI	Critical State Significant Infrastructure
CTP	Compliance Tracking Program
D&C	Design and Construct
DPIE	NSW Department of Planning, Industry and Environment

Abbreviation	Expanded Text
EA	Environmental Advisor
EES	Environment, Energy and Science Group (DPIE)
EIS	Environmental Impact Statement
EMS	Environmental Management System
ECM	Environmental Control Map
Ecological sustainable development	Using, conserving and enhancing the community's resources so that the ecological processes on which life depends are maintained and the total quality of life now and in the future, can be increased (Council of Australian Governments, 1992).
Environmental aspect	Defined by AS/NZS ISO 14001:2004 as an element of an organisation's activities, products or services that can interact with the environment.
Environmental impact	Defined by AS/NZS ISO 14001:2004 as any change to the environment, whether adverse or beneficial, wholly or partially resulting from an organisation's environmental aspects.
Environmental incident	An unexpected event that causes, or has the potential to cause, harm to the environment and requires some action to minimise the impact or to restore the environment.
Environmental objective	Defined by AS/NZS ISO 14001:2004 as an overall environmental goal, consistent with the environmental policy, that an organisation sets itself to achieve.
Environmental policy	Statement by an organisation of its intention and principles for environmental performance.
Environmental target	Defined by AS/NZS ISO 14001:2004 as a detailed performance requirement, applicable to the organisation or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.
Environmental Representative	A suitably qualified and experienced person independent of project design and construction personnel employed for the duration of construction. The principal point of advice in relation to all questions and complaints concerning environmental performance.
EWMS	Environmental work method statements
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EPA	NSW Environment Protection Authority

Abbreviation	Expanded Text
EPL	Environment Protection Licence
EPO	Environmental performance outcomes
ER	Environmental Representative
ERA	Environmental risk assessment
ETS	Electronic ticketing system
ESCP	Erosion and Sediment Control Plan
EWMS	Environmental Work Method Statement, a component of the environmental management system that addresses environmental management issues relevant to a specific site and/or activity
FMP	Flood Management Plan
FFMP	Flora and Fauna Management Plan
GHG	Greenhouse gas
GRCLR	Great River City Light Rail (responsible for the delivery of the SOM works for PLR)
HMP	Heritage Management Plan
IC	Independent Certifier
IMS	Information management system
LORAC	Laing O'Rourke Australia Contractors
LRV	Light rail vehicle
NVMP	Construction Noise and Vibration Management Plan
Non-compliance	Failure to comply with the requirements of the Project Approval or any applicable license, permit or legal requirements
non-compliance	An occurrence, set of circumstances or development that is a breach of the planning approval but is not an environmental incident.
NOW	NSW Office of Water
O&M	Operate and Maintain
PLR	Parramatta Light Rail

Abbreviation	Expanded Text
Project	Construction of the PLR light rail systems, high-voltage power supply and stops above slab level, and the stabling and maintenance facility
POEO Act	<i>Protection of the Environment Operations Act 1997</i>
REMMM	Revised Environmental Mitigation and Management Measure (from the Submissions Report incorporating the Preferred Infrastructure Report)
RMS	NSW Roads and Maritime Services (merged with TfNSW)
SaMF	Stabling and maintenance facility
SOM	Supply, Operate and Maintain Contract (Package 5)
Secretary	Secretary of the NSW Department of Planning, Industry and Environment (or delegate)
SPIR	Submissions and Preferred Infrastructure Report
SWMP	Soil and Water Management Plan
TPS	Traction power sub-station
TfNSW	Transport for New South Wales (PLR proponent)
TTAMP	Transport and Access Management Plan
Ventia	Remediation Contractor – Responsible for the remedial works at the Stabling and Maintenance Facility Site at Rosehill
WRMP	Waste and Resource Use Management Plan

Documents Referenced in this Plan

Document Name	Relationship to this Plan
Traffic, Transport and Access Management Plan	Sub plan under CoA C3
Flora and Fauna Management Plan	Sub plan under CoA C3
Noise and Vibration Management Plan	Sub plan under CoA C3
Soil and Water Quality Management Plan	Sub plan under REMMM
Heritage Management Plan	Sub plan under CoA C3
Aboriginal Heritage Management Plan	Sub plan under REMMMs
Air Quality Management Plan	Sub plan under REMMMs
Construction Waste and Resource Management Plan	Sub plan under REMMMs
Site Establishment Management Plan	Standalone plan under CoA C18
Flood Management Plan	Sub plan under CoA C3
Landscape and Temporary Works Plan	Sub plan under REMMM
Sustainability Strategy	Overarching strategy
Sustainability Management Plan	Standalone plan
GRCLR Staging Report	Standalone report
Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia EIS	Standalone report
Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia Submissions Report (incorporating Preferred Infrastructure Report)	Standalone report
GRCLR Environmental and Sustainability Policy	Standalone document
Environmental Control Maps	Standalone documents
Communication and Engagement Plan	Standalone plan

Status of this Plan

The Parramatta Light Rail Westmead to Carlingford (SSI 8285) was approved by the Minister for Planning on 29 May 2018, and subsequently been modified twice under Section 5.25 of the *EP&A Act*, with approvals issued on 21 December 2018 and 25 January 2019 respectively.

It has also been the subject of two Staging Reports:

- November 2018, prepared by Transport for NSW (TfNSW); and superseded by
- September 2019 prepared by Parramatta Connect (Infrastructure Contractor).

A second Staging Report was prepared by Parramatta Connect (Infrastructure Contractor) to refine the allocation of the Conditions of Approval (CoA) and the Revised Environmental Mitigation and Management Measures (REMMM) to better reflect the allocation of scope between the delivery packages. This Staging Report was approved by DPIE in September 2019.

GRCLR has prepared a third version of the Staging Report to further refine the allocation of environmental requirements between the different delivery contractors and reflects the staging of the GRCLR CEMP for the SOM works. Though the GRCLR Staging Report (Revision 6.03) proposes the staging of the CEMP for the SOM works, the proposed allocation of the CoA, REMMM will be applicable in full to both the Stage 1 and Stage 2 CEMP.

This CEMP has been prepared to meet the requirements of the CoAs and REMMMs as allocated by Staging Report Revision 6.03, approved in May 2020. When the third version of Staging Report is approved, this CEMP will be reviewed and revised accordingly.

This CEMP is staged to reflect the construction program which is reliant on the completion of works by the Remediation and Infrastructure contractors. It also allows time for consistency assessments to be undertaken for changes relating to some of the TPS sites and the BOCC without delaying commencement of construction at the SaMF site.

The GRCLR CEMP is being staged as follows:

- First Issue includes: Construction at the SaMF site;
- Revision includes: Construction of the remainder of the alignment and Traction Power Stations (TPS), Back-up Operations and Control Centre (BOCC), and other sites.

1 Introduction

1.1 Background

1.1.1 Parramatta Light Rail Description

Parramatta Light Rail (PLR) is one of the NSW Government's major infrastructure projects being delivered to serve a growing Sydney.

PLR will connect Westmead to Carlingford via Parramatta Central Business District (CBD) and Camellia. PLR is expected to be operational in 2023.

PLR will create new communities, connect great places and help both local residents and visitors move around and explore what the region has to offer. The route will link Parramatta's CBD and train station to a number of key locations, including the Westmead Precinct, the Parramatta North Growth Centre, the new Western Sydney Stadium, the Camellia Town Centre, the new Powerhouse Museum and Riverside Theatre arts and cultural precinct, the private and social housing redevelopment at Telopea, the Rosehill Gardens Racecourse and the three Western Sydney University campuses.

In summary, the key features of PLR include:

- A new dual track light rail network of approximately twelve kilometres in length, including approximately seven kilometres within the existing road corridor and approximately five kilometres within the existing Carlingford Line and Sandown Line, replacing current heavy rail services
- Sixteen stops that are fully accessible and integrated into the urban environment including a terminus stop at each end of Westmead and Carlingford
- High frequency 'turn-up-and-go' services operating seven days a week from 5am to 1am. Weekday services will operate approximately every 7.5 minutes in the peak period
- Modern and comfortable air-conditioned light rail vehicles, nominally 45 metres long and driver-operated, each carrying up to 300 passengers.
- Intermodal interchanges with existing public transport services at Westmead terminus, Parramatta CBD and the Carlingford terminus
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD along Church Street (generally between Market Street and Macquarie Street) and along Macquarie Street (generally between Horwood Place and Smith Street)
- A stabling and maintenance facility (SaMF) located in Camellia for light rail vehicles to be stabled, cleaned and maintained
- New and modified bridge structures along the alignment including over James Ruse Drive and Clay Cliff Creek, Parramatta River (near the Cumberland Hospital), Kissing Point Road and Vineyard Creek, Rydalmere
- Alterations to the existing road network including line marking, additional traffic lanes and turning lanes, new traffic signals, and changes to traffic flows
- Relocation and protection of existing utilities
- Public domain and urban design works along the corridor and at Stop precincts
- Closure of the heavy rail line between Carlingford and Clyde
- Active transport corridors and additional urban design features along sections of the alignment and within Stop precincts

- Integration with the Opal Electronic Ticketing System (ETS)
- Real time information in light rail vehicles and at Stops via visual displays and audio.

An overview of the PLR route is shown in Figure 1-1.



Figure 1-1: Parramatta Light Rail Route

1.1.2 PLR Delivery Strategy

The PLR comprises approximately 12km alignment from Westmead to Carlingford via Camellia and Parramatta CBD and consists of a mix of on-street and dedicated corridor.

PLR is being delivered under five delivery packages as detailed in the Staging Report Revision 6.03:

- Enabling Works (**Package 1**) – Local road network improvements including O’Connell Street and George Street (off-alignment)
- Westmead Precinct Works (**Package 2**) – Hawkesbury Road widening and demolition at
- Cumberland Hospital (east and west Campus)
- Early Works (**Package 3**) – Remediation of the Stabling and Maintenance Facility (SaMF)

- Infrastructure Works (**Package 4**) – Design and construction of civil works, public domain and light rail infrastructure up to road level/top of rail and to the top of the concrete slab at stops, including provision of utility services (excluding high-voltage power supply and cabling for rail systems), and decommissioning of the T6 Carlingford Line
- Supply Operate and Maintain Works (**Package 5**) – The Project (subject of this Plan) Design and construction of the light rail systems, high-voltage power supply and stops above slab level, the supply of light rail vehicles, and the design and construction of the SaMF, including all light rail operations, customer service and asset management.

Each package of work is to be delivered under separate contracts on behalf of the proponent Transport for NSW (TfNSW). While the packages will commence at different times under separate construction approvals, there will be periods during which the works packages will overlap. The interactions between the packages are shown in Figure 1-2.

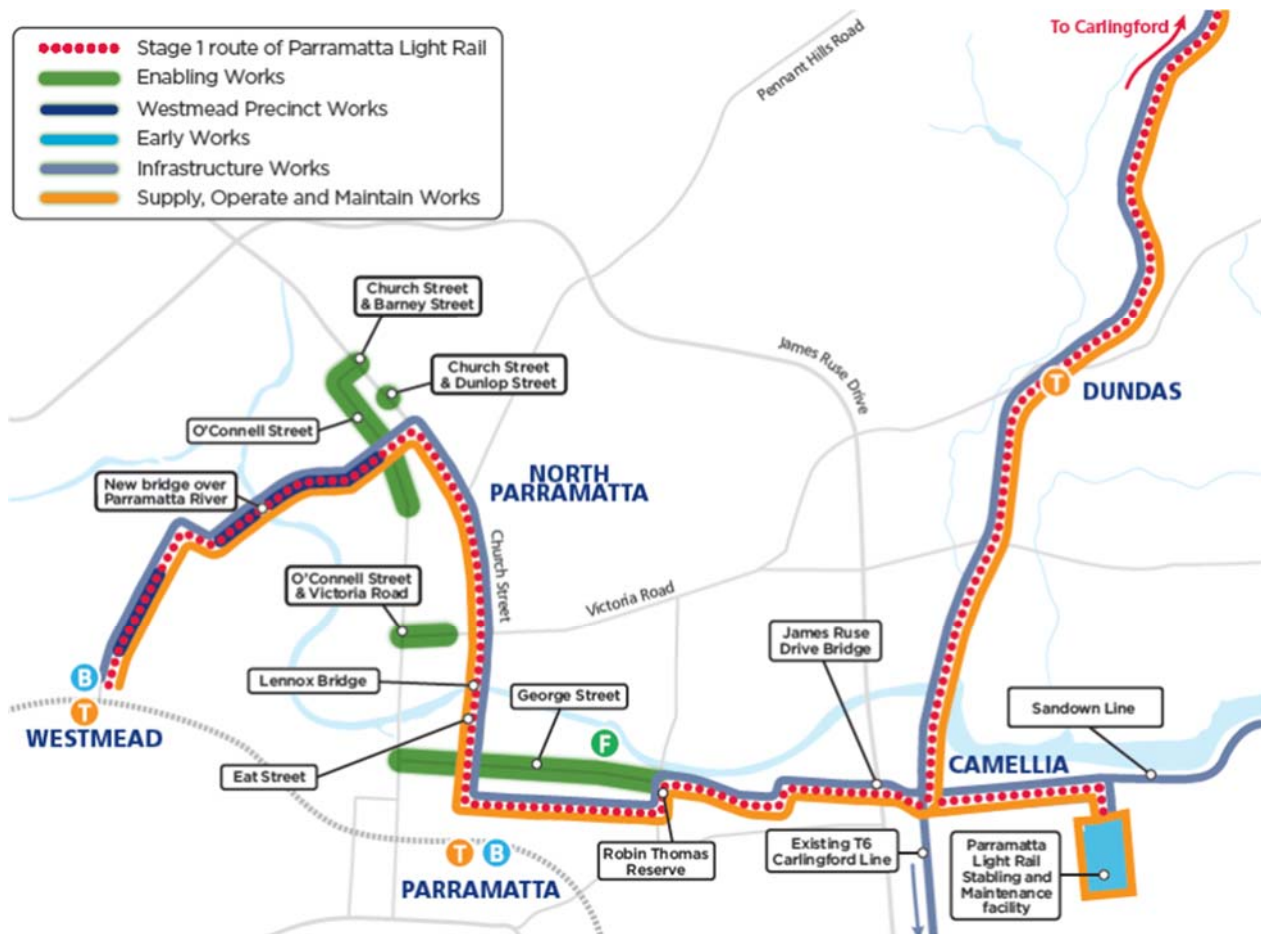


Figure 1-2: Parramatta Light Rail Delivery Strategy

1.1.3 Supply, Operate and Maintain Contract (Package 5) overview

As System Integrator for PLR, the SOM Contractor's activities include:

- Delivery activities
- Light rail vehicle procurement
- Operation and maintenance.

The delivery activities include all investigation, selection, specification, design, approvals, construction, manufacture, installation, testing and commissioning, operational readiness and activities to transition from the delivery phase to the operations phase.

In summary the SOM package includes the following. Figure 1-3 further details these activities.

- All works above and additional to the platform concrete foundation slab at all stops
- Stabling and maintenance facility
- Central control system
- Light rail signalling system
- Elements of the road intersection signalling system
- Communications and passenger information systems
- Power Supply system
- Procurement of light rail vehicles (LRV)
- Maintenance plant and machinery for the LRVs
- Earthing and bonding, electrolysis and electromagnetic compatibility

Note: This version of the CEMP has been prepared for the purpose of the construction of the Stabling and Maintenance Facility, which incorporates elements of all of the above listed activities except the construction of the stops.

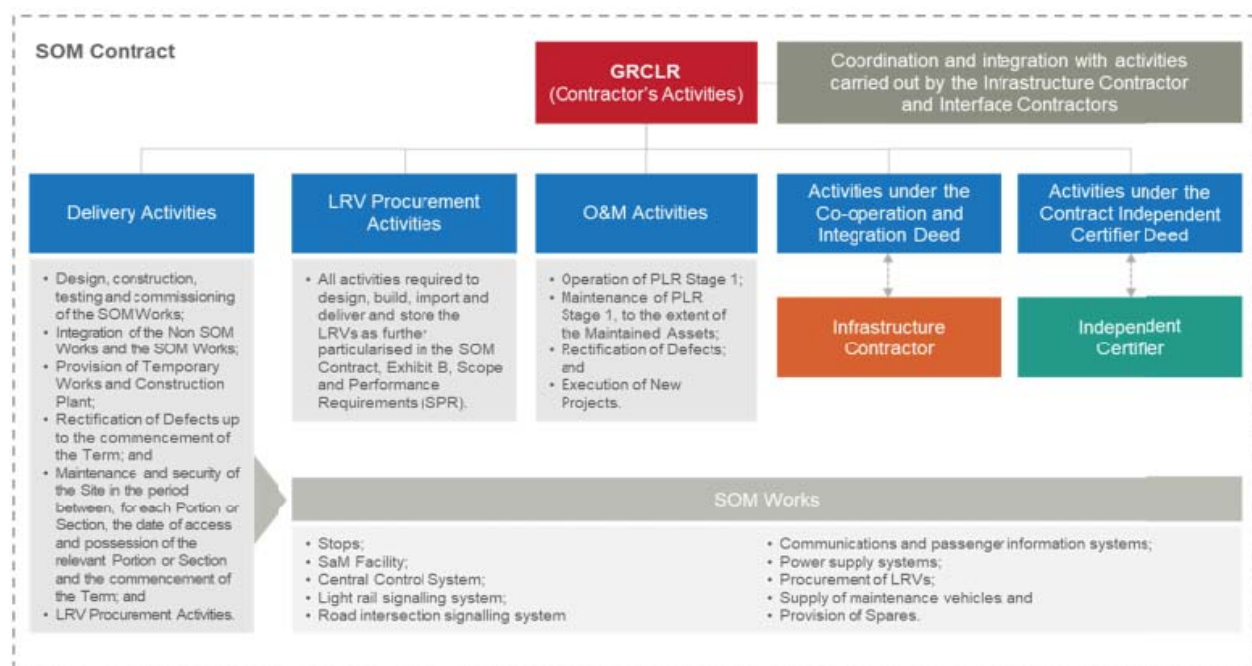


Figure 1-3: SOM Contract Activities for PLR

Great River City Light Rail (GRCLR) is responsible for the delivery of the SOM works for PLR. GRCLR has sub-contracted out the supply component of these works to Construcciones y Auxiliar de Ferrocarriles (CAF) who has engaged Thales, General Electric and Laing O'Rourke Australia (LORAC) to undertake the design and construction responsibilities associated with the supply component of the works, which includes the design and construction related activities including testing and commissioning, and excludes all operational and maintenance activities.

GRCLR is the owner of this Construction Environmental Management Plan (CEMP) and is responsible for ensuring implementation of and compliance with this CEMP by all subcontractors during construction works of Package 5, which include the construction of the light rail systems, high-voltage power supply and stops above slab level, as well as the stabling and maintenance facility (the Project). Further detail on the Project is provided in Section 2.

1.1.4 Relationship with other Packages

Infrastructure Works (Package 4)

The Infrastructure Works Package is closely aligned to the Package 5, SOM Works. A graphical representation of the split in scope between the two packages is depicted in Figure 1-4. The reason for dividing this work into two packages is to ensure that suitably qualified and experienced sub-contractors are in place for each specialised component; civil infrastructure, and operational systems. The Infrastructure Works will deliver the civil infrastructure components of PLR and will not trigger the operational conditions, except for those that relate to detailed design.

An interface between the two packages has been established to monitor cumulative impacts and the coordination of environmental complaints management, site management controls, and the delineation of incident reporting and non-compliance management.

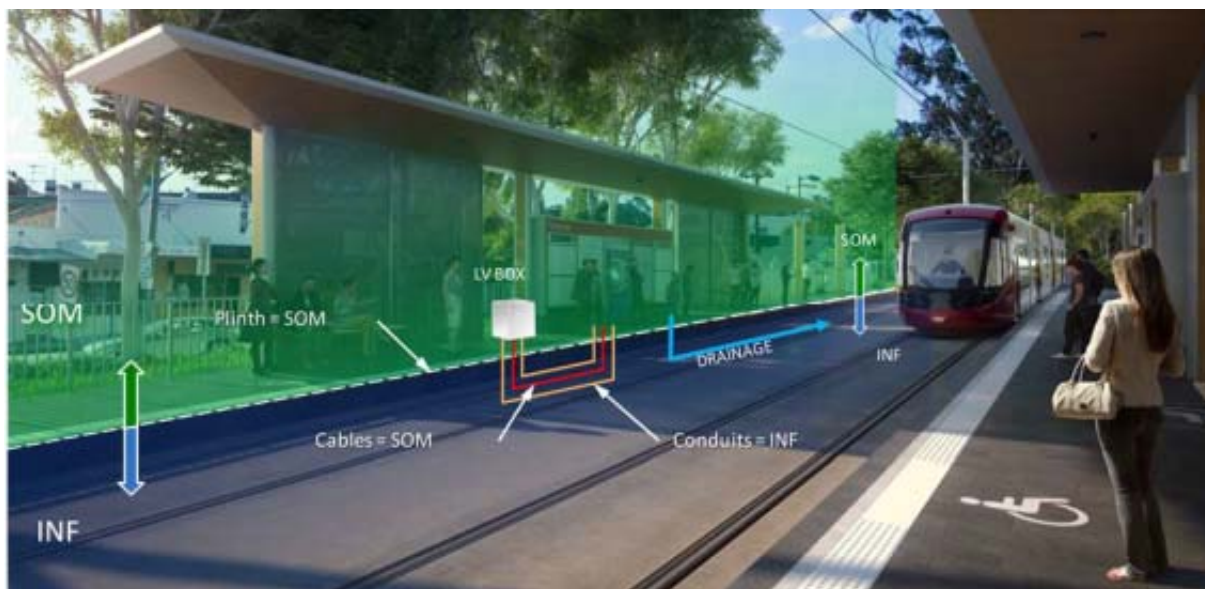


Figure 1-4: Relationship between Infrastructure Works and SOM Works

Early Works Remediation Contractor – Ventia (Package 3)

The SOM contract is dependent on the completion of the remediation works at the stabling and maintenance facility (SaMF) site, by the remediation contractor.

The SaMF site is subject to historical contamination and is a listed contaminated site by the Environment Protection Authority (EPA). The works have been split to ensure that appropriately qualified contractor, experienced in remediating heavily contaminated sites, is managing the remediation of the site. The remediation contractor will complete their works and provide GRCLR a remediated site, complete with a site audit statement, and supporting management documentation, fit for purpose for site establishment, construction and operational activities associated with PLR.

The remediation works will deliver the remediated site, including any details of any ongoing management requirements, and will not trigger the construction and operational conditions, except for those that relate to detailed design. The Remediation Contractor will provide GRCLR with a

Long Term Environmental Management Plan (LTEMP) for the SaMF, the LTEMP will include all operation, management, maintenance and monitoring requirements for the SaMF. GRCLR will implement the requirements relevant to the construction of the Stabling and Maintenance facility.

Ongoing management for the remedial works on the SaMF site will be implemented through a Long Term Environmental Management Plan (LTEMP) which will be approved by the Site Auditor, as part of the issuing of the Site Audit Statement (SAS) for the site. The LTEMP will be a stand-alone document, and all monitoring and reporting will be managed through the processes and procedures in the LTEMP, and not through the SOM CEMP.

An interface between the two packages has been established to ensure the remediated site meets the design requirements for the construction, operation and maintenance of the site.

1.1.5 Statutory Context

PLR has been subject to environmental impact assessment under the *Environmental Planning and Assessment Act 1979* (EP&A Act). It is classified as Critical State Significant Infrastructure (CSSI).

Detailed environmental impact assessments have been carried out and approved by the Minister for Planning and Public Spaces. The Planning Approval for PLR is described in Section 1.1.6.

1.1.6 Parramatta Light Rail Planning Approval

The Parramatta Light Rail was approved by the Minister for Planning on 29 May 2018, under Section 5.19 of the *Environmental Planning and Assessment Act (EP&A Act) 1979*. An environmental impact statement (EIS) was prepared as part of the infrastructure application (SSI-8285) as was a submissions and preferred infrastructure report (SPIR) following public exhibition of the EIS.

The Infrastructure Approval has subsequently been modified twice under Section 5.25 of the *EP&A Act*, with approvals issued on 21 December 2018 and 25 January 2019 respectively. The modifications related to changes to conditions of approval (CoA) not the physical description of PLR.

The Infrastructure Approval, modifications and related environmental assessment documents can be found at: http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=8285.

1.2 CEMP and Sub Plans

This CEMP and sub plans have been prepared to outline and describe how GRCLR will comply with the requirements of the following during the construction of the Project.

- Minister's Conditions of Approval (CoA) SSI-8285
- Revised Environmental Mitigation and Management Measures (REMMMs)
- Environmental Performance Outcomes (EPO's)
- AS/NZ ISO 14001
- All applicable legislation
- Project Deed.

It outlines how GRCLR will minimise the environmental risks and achieve environmental outcomes on the Project by providing a structured approach to ensure appropriate environmental mitigation measures are implemented.

This CEMP is the overarching document of the environmental management system for the Project. It is applicable to all staff and subcontractors associated with the construction of the Project.

In summary, the main purpose of this CEMP is to:

- Describe the Project including all relevant activities to be undertaken on the site during construction and associated timing of the various stages of the Project
- Comply with the relevant environmental requirements of the Project
- Identify the environmental hazards, risks and mitigation measures associated with GRCLR's construction activities
- Assist in the prevention of unauthorised environmental harm
- Minimise negative impacts on the community that relate to the environmental impacts of the construction activities
- Identify and outline implementation for feasible opportunities to reduce the environmental impact of GRCLR's construction activities that are beyond compliance requirements
- Meet the requirements of AS/NZ ISO 14001 including the need for continual improvement.

1.2.1 Internal Review

Draft documents are internally reviewed by the author and GRCLR representatives prior to issue to TfNSW, the ER and the Independent Certifier (IC) for review. Upon receipt of any comments, the GRCLR will either amend the document to reflect the comments or document the justification as to why no change is required; evidence of consultation will be retained.

1.2.2 Certification and Approval

The final CEMP would be endorsed by the GRCLR Environment and Sustainability Manager and approved by the Project Director. The final CEMP would be submitted for endorsement by the Project Environmental Representative (ER), and approval by the Secretary of Department of Planning, Industry and Environment (DPIE) no later than one month prior to the commencement of construction, as required by the infrastructure approval. Sub-plans to the CEMP would also be required to be submitted to the Secretary of DPIE prior to commencement of construction for either information or approval at least one month prior to commencement of construction, as shown in **Table 1-1**.

Table 1-1: Secretary approval requirements

Required CEMP Sub-plan	Secretary Approval/ Information
CEMP	Approval
Traffic, transport and access	Information
Noise and vibration	Approval
Flood management	Information
Heritage	Approval
Flora and fauna	Information

1.2.3 Consultation

This Project CEMP and sub plans have been developed in consultation with relevant stakeholders as identified in **Table 1-2**. The outcomes of the consultation are addressed and documented where relevant in a separate consultation report ([PLR1SOM-GLR-ALL-EN-RPT-001002](#)), submitted to DPIE together with the relevant plans.

Table 1-2: Consultation requirements

Required CEMP Sub-plan	Relevant government agencies to be consulted for each CEMP Sub-plan
Traffic, transport and access	Relevant council(s), TfNSW, Emergency Services
Noise and vibration	Relevant council(s), EPA, NSW Health
Flood management	Relevant council(s), Environment, Energy and Science Group (DPIE), OEH (Department of Premier and Cabinet), Sydney Water
Heritage	Relevant council(s), OEH (Department of Premier and Cabinet)
Flora and fauna	Relevant council(s), OEH (Department of Premier and Cabinet)
Site establishment management plan	Relevant council(s) and relevant government authorities

Where the terms of the CoA require a document or monitoring program to be prepared or a review to be undertaken in consultation with identified parties, evidence of the consultation undertaken will be submitted to the Secretary with the document or monitoring program for review, in accordance with CoA A5. The evidence would include:

- Documentation of the engagement with the party(ies) identified in the relevant condition of approval before submitting the document for approval
- Log of the points of engagement or attempted engagement with the identified party(ies) and a summary of the issues raised by the identified party(ies)
- Documentation of any follow-up with the identified party(ies), where feedback has not been provided, to confirm that the identified party(ies) has none or has failed to provide feedback after repeated requests
- Outline of the issues raised by the identified party(ies) and how they have been addressed, including evidence that the party(ies) is satisfied the issues have been addressed
- where there are outstanding issues raised by the identified party(ies) that have not been adopted, the reasons why they have not been/could not be adopted must be provided, including evidence of consultation with the relevant party(ies).

In accordance with CoA C5 the evidence of consultation for each management sub plan will be provided in a stand-alone report submitted together with each of the relevant management sub plans and programs.

1.2.4 CEMP Availability and Distribution

This CEMP will be made available to the public on the project wide PLR website. Confidential information, which may include the location of threatened species and personnel contact details, would be removed from all documents prior to them being made publicly available.

This CEMP will be made available to all personnel and subcontractors via the Project Integrated Management System (IMS).

The document is uncontrolled when printed. One controlled hard copy of the CEMP and supporting documents would be maintained by the GRCLR Environment and Sustainability Manager at the Project office, with copies distributed to:

- Project Director
- Environmental Representative (ER)
- Acoustic Advisor (AA)
- Design and Construct (D&C) Environment Manager
- Stakeholder & Community Relations Manager
- TfNSW representative
- Independent Certifier.

1.3 CEMP Compliance

This CEMP and sub plans have been prepared to describe how GRCLR, will comply with the environmental requirements during the construction of the Project. Requirements that are applicable to the management sub plans are listed and addressed in the relevant plans. Minister's Conditions of Approval

The CoA relevant to this Plan are listed in Table 1-3. A cross reference is also included to indicate where the condition is addressed in this Plan.

Table 1-3 lists the CoA that are relevant to the CEMP only, together with where and how each is addressed. Similarly, **Table 1-4** lists the relevant REMMMs from the SPIR and Environmental Performance Outcomes

Relevant EPOs are listed in Table 1-5. This includes reference to required outcomes, relevant documents or sections references and how addressed.

Table 1-5 provides the relevant EPO from the EIS.

1.3.1 Minister's Conditions of Approval

The CoA relevant to this Plan are listed in Table 1-3. A cross reference is also included to indicate where the condition is addressed in this Plan.

Table 1-3: CoA relevant to the CEMP

CoA No.	Requirement	Reference	How Addressed
A1	<p>The CSSI must be carried out in accordance with the terms of this approval and generally in accordance with the description of the CSSI in the Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia Environmental Impact Statement (dated August 2017) (the EIS) as amended by</p> <p>(a) the Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia Submissions Report (incorporating Preferred Infrastructure Report) (February 2018) (the SPIR).</p> <p>(b) SSI 8285 Administrative modification (November 2018) (MOD 1); and</p> <p>(c) SSI 8285 Correction to Administrative modification (January 2019) (MOD 2).</p>	<p>Section 1.1.5</p> <p>Section 1.1.6</p> <p>Table 1-1</p> <p>Table 1-2</p>	<p>This CEMP and Associated Sub-plans demonstrate how the construction of the Project will be carried out in accordance with the CoA, EIS (August 2017) and SPIR (February 2018).</p> <p>All relevant commitments are listed in each sub plan with a reference of where and how it is addressed.</p>
A2	<p>The CSSI must be carried out in accordance with all procedures, commitments, preventative actions, performance criteria and mitigation measures set out in the EIS as amended by the Submissions Report (incorporating Preferred Infrastructure Report) unless otherwise specified in, or required under, this approval.</p>	<p>This Plan</p>	<p>This CEMP is the overarching document in the environmental management system for the Project and includes a number of management documents, including sub-plans and procedures. It is applicable to all staff and Subcontractors associated with the construction of the Project.</p>

			The CEMP provides a framework for ensuring compliance with the requirements of the CoA (including approved Modifications 1 and 2), REMMMs, relevant legislative requirements and the Deed.
A3	<p>In the event of an inconsistency between the EIS and the Submissions Report (incorporating Preferred Infrastructure Report) or any other document required under this approval, and a term of this approval, the term of this approval prevails to the extent of the inconsistency.</p> <p>Note: For the purpose of this condition, there will be an inconsistency between a term of this approval and any document if it is not possible to comply with both the term and the document.</p>	<p>This Plan</p> <p>Section 3.8</p> <p>Section 8.4</p> <p>Appendix A1</p>	<p>Condition noted.</p> <p>In the event that an inconsistency is identify, clarification will be sought from the ER or the DPIE, if required.</p>
A4	<p>The Proponent must comply with all written requirements or directions of the Secretary, including</p> <p>in relation to:</p>	<p>Section 6.1, 8.3, 8.4, 8.6</p> <p>Appendix A1</p>	Condition noted
(a)	the environmental performance of the CSSI;	<p>Section 6.1, 8.3, 8.4, 8.6</p> <p>Appendix A1</p>	<p>Condition noted</p> <p>In the event that a written requirement or direction is received from the Planning Secretary, relevant information and/or records will be provided to TfNSW for submission.</p>
(b)	any document or correspondence in relation to the CSSI;	<p>Section 6.1, 8.3, 8.4, 8.6</p>	<p>Condition noted</p> <p>In the event that a written requirement or direction is received from the Planning Secretary, relevant</p>

		Appendix A1	information and/or records will be provided to TfNSW for submission.
(c)	any notification given to the Secretary under the terms of this approval;	Section 6.1, 8.3, 8.4, 8.6 Appendix A1	Condition noted In the event that a written requirement or direction is received from the Planning Secretary, relevant information and/or records will be provided to TfNSW for submission.
(d)	any audit of the construction or operation of the CSSI;	Section 6.1, 8.3, 8.4, 8.6 Appendix A1	Condition noted In the event that a written requirement or direction is received from the Planning Secretary, relevant information and/or records will be provided to TfNSW for submission.
(e)	the terms of this approval and compliance with the terms of this approval (including anything required to be done under this approval); and	Section 6.1, 8.3, 8.4, 8.6 Appendix A1	Condition noted In the event that a written requirement or direction is received from the Planning Secretary, relevant information and/or records will be provided to TfNSW for submission.
(f)	the carrying out of any additional monitoring or mitigation measures.	Chapter 8 Appendix A1	Condition noted In the event that a written requirement or direction is received from the Planning Secretary, relevant information and/or records will be provided to TfNSW for submission.

A5	Where the terms of this approval require a document or monitoring program to be prepared or a review to be undertaken in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Secretary with the document or monitoring program or review. The evidence must include:	Section 1.2.3, 6.1, 7.2, 8.3, 8.5	Each document or monitoring program that is to be prepared or a review to be undertaken in consultation with identified parties will be issued to the relevant party and the records included in the relevant sub plan appendices. Stand-alone Consultation Reports. For CEMP PLR1SOM-GLR-ALL-EN-RPT-001002 Rev C.
(a)	documentation of the engagement with the party(ies) identified in the relevant condition of approval before submitting the document for approval;	Section 1.2.3, 6.1, 7.2, 8.3, 8.5	Each document or monitoring program that is to be prepared or a review to be undertaken in consultation with identified parties will be issued to the relevant party and the records included in the relevant sub plan appendices. Stand-alone Consultation Reports. For CEMP PLR1SOM-GLR-ALL-EN-RPT-001002 Rev C.
(b)	log of the points of engagement or attempted engagement with the identified party(ies) and a summary of the issues raised by the identified party(ies);	Section 1.2.3, 6.1, 7.2, 8.3, 8.5	Each document or monitoring program that is to be prepared or a review to be undertaken in consultation with identified parties will be issued to the relevant party and the records included in the relevant sub plan appendices. Stand-alone Consultation Reports. For CEMP PLR1SOM-GLR-ALL-EN-RPT-001002 Rev C.
(c)	documentation of any follow-up with the identified party(ies), where feedback has not been provided, to confirm that the identified party(ies) has none or has failed to provide feedback after repeated requests;	Section 1.2.3, 6.1, 7.2, 8.3, 8.5	Each document or monitoring program that is to be prepared or a review to be undertaken in consultation with identified parties will be issued to the relevant party and the records included in the relevant sub plan appendices.

			Stand-alone Consultation Reports. For CEMP PLR1SOM-GLR-ALL-EN-RPT-001002 Rev C.
(d)	outline of the issues raised by the identified party(ies) and how they have been addressed, including evidence that the party(ies) is satisfied the issues have been addressed; and	Section 1.2.	Each document or monitoring program that is to be prepared or a review to be undertaken in consultation with identified parties will be issued to the relevant party and the records included in the relevant sub plan appendices. Stand-alone Consultation Reports. For CEMP PLR1SOM-GLR-ALL-EN-RPT-001002 Rev C.
(e)	where there are outstanding issues raised by the identified party(ies) that have not been adopted, the reasons why they have not been/could not be adopted must be provided, including evidence of consultation with the relevant party(ies).	Section 1.2.3	Each document or monitoring program that is to be prepared or a review to be undertaken in consultation with identified parties will be issued to the relevant party and the records included in the relevant sub plan appendices. Stand-alone Consultation Reports. For CEMP PLR1SOM-GLR-ALL-EN-RPT-001002 Rev C.
A29 (g) iii	consider relevant minor amendments made to the CEMP, relevant sub-plans and noise and vibration monitoring programs that require updating or are of an administrative nature, and are consistent with the terms of this approval and the management plans and monitoring programs approved by the Secretary and, if satisfied such amendment is necessary, endorse the amendment. This does not include any modifications to the terms of this approval;	Section 9.2	Minor amendments made to the CEMP, relevant sub-plans and noise and vibration monitoring programs may be approved by the Environmental Representative in consultation with the AA. More significant changes would require the approval of DPIE.
A30	A Compliance Tracking Program to monitor compliance with the terms of this approval must be prepared, taking into	Section 8.4	A Project wide Compliance Tracking Program (CTP) will be maintained by TfNSW. The CTP will

	consideration any staging of the CSSI that is proposed in a Staging Report submitted in accordance with Conditions A13 and A14 of this approval.		contain all the CoA and satisfy the requirements of CoA A30 to A34. The CTP will be maintained for the duration of the Project.
A31	The Compliance Tracking Program must be endorsed by the ER and then submitted to the Secretary for information at least one (1) month before the commencement of works.	Section 8.4	The CTP will be endorsed by the ER and submitted to the Secretary for information at least one month before the commencement of works
A32	The Compliance Tracking Program in the form required under Condition A30 of this approval must be implemented for the duration of works and for a minimum of one (1) year following commencement of operation, or for a longer period as determined by the Secretary based on the outcomes of independent environmental audits, Environmental Representative Monthly Reports and regular compliance reviews submitted through Compliance Reports. If staged operation is proposed, or operation is commenced of part of the CSSI, the Compliance Tracking Program must be implemented for the relevant period for each stage or part of the CSSI.	Section 8.4	The CTP will be maintained for the duration of the Project and reviewed quarterly. Table 8-4 sets out the compliance reporting schedule.
A33	The Proponent must make each compliance report publicly available and notify the Department in writing when this has been done.	Section 8.4	Each compliance report will be available via the PLR project website: www.parramattalightrail.nsw.gov.au
A34	A Pre-Construction Compliance Report must be prepared and submitted to the Secretary for information no later than one (1) month before the commencement of construction (or each stage of construction identified in the Staging Report).	Section 8.4	The pre-construction compliance report will be prepared by TfNSW and GRCLR and submitted to the Secretary prior to the commencement of construction of this package.

A37	Construction Compliance Reports must be prepared and submitted to the Secretary for information every six (6) months from the date of the commencement of construction for the duration of construction. The Construction Compliance Reports must include:	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
(a)	a results summary and analysis of environmental monitoring;	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
(b)	the number of complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints;	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
(c)	details of any review of, and minor amendments made to, the CEMP as a result of construction carried out during the reporting period;	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
(d)	a register of any reviews of consistency undertaken including outcome;	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.

(e)	results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit;	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
(f)	a summary of all incidents notified in accordance with Conditions A44 and A46 of this approval; and	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
(g)	any other matter relating to compliance with the terms of this approval or as requested by the Secretary.	Chapter 8	The construction compliance reports will be prepared by TfNSW with input from the GRCLR and submitted to the Secretary for information every six months. The content of the reports is stated in chapter 8 of this CEMP.
A40	An Environmental Audit Program for annual independent environmental auditing against the terms of this approval must be prepared in accordance with <i>AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems</i> and submitted to the Secretary for information no later than one month before the commencement of construction.	Section 8.3	Internal and external environmental audits would be undertaken in accordance with <i>AS/NZS ISO 19011:2014 Guidelines for Auditing Management Systems</i> and follow the environmental audit program submitted to the Secretary for information no later than one month before commencement of construction. An indicative audit schedule is provided in Table 8-3 .
A41	The Environmental Audit Program, as submitted to the Secretary, must be implemented for the duration of construction and operation.	Section 8.3	Environmental audits would be conducted at regular intervals, on a risk-based approach, during

			construction of the Project to assess environmental performance and ensure compliance.
A42	All independent environmental audits of the CSSI must be conducted by a suitably qualified, experienced and independent auditor with, where required, a team of independent technical experts and be documented in an Environmental Audit Report which:	Section 8.3	<p>The independent environmental audits will be undertaken by a suitably qualified, experienced and independent auditor with, where required, a team of independent technical experts.</p> <p>The independent environmental audit report will assess the performance and compliance of the Project, identifying measures and actions to improve performance.</p>
(a)	assesses the environmental performance of the CSSI, and its effects on the surrounding environment;	Section 8.3	<p>The independent environmental audits will be undertaken by a suitably qualified, experienced and independent auditor with, where required, a team of independent technical experts.</p> <p>The independent environmental audit report will assess the performance and compliance of the Project, identifying measures and actions to improve performance.</p>
(b)	assesses whether the project is complying with the terms of this approval; and	Section 8.3	<p>The independent environmental audits will be undertaken by a suitably qualified, experienced and independent auditor with, where required, a team of independent technical experts.</p> <p>The independent environmental audit report will assess the performance and compliance of the Project, identifying measures and actions to improve performance.</p>

(c)	recommends measures or actions to improve the environmental performance of the CSSI.	Section 8.3	<p>The independent environmental audits will be undertaken by a suitably qualified, experienced and independent auditor with, where required, a team of independent technical experts.</p> <p>The independent environmental audit report will assess the performance and compliance of the Project, identifying measures and actions to improve performance.</p>
A43	The Proponent must submit a copy of the Environmental Audit Report to the Secretary for information, with a response to any recommendations contained in the audit report within six (6) weeks of completing the audit.	Section 8.3	Independent audit recommendations would be implemented within six weeks of receiving the independent audit report.
A44	The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the Proponent becomes aware of an incident. The notification must identify the CSSI (including the application number and the name of the CSSI if it has one) and set out the location and nature of the incident.	Section 7.2	TfNSW hold the primary responsibility for fulfilling the obligations detailed in CoA A44 to A47 with respect to incident notification and reporting to DPIE. GRCLR will assist and cooperate with TfNSW to fulfil these obligations.
A45	Within one week of notification of an incident under Condition A44 of this approval, the Proponent must submit a report to the Department providing the time and date of the incident, details of the incident and must identify any consequent non-compliance with this approval.	Section 7.2	<p>TfNSW will submit a report to the Department providing the time and date of the incident, details of the incident and identification of any consequent non-compliance with this approval.</p> <p>The GRCLR will assist and cooperate with TfNSW to fulfil this obligation.</p>
A46	All written requirements of the Secretary, which may be given at any point in time, to address the cause or impact of an incident	Section 7.2	TfNSW and GRCLR will implement all written requirements of the Secretary, which may be given

	must be complied with, within any timeframe specified by the Secretary or relevant public authority.		at any point in time, to address the cause or impact of an incident within any timeframe specified by the Secretary or relevant public authority.
A47	If an incident occurs or if statutory notification is given to the EPA as required under the <i>Protection of the Environment Operations Act 1997</i> in relation to the CSSI, such notification must also be provided to the Secretary within 24 hours after the notification was given to the EPA.	Section 7.2	If an incident requires EPA notification under the POEO Act, TfNSW will notify the Secretary within 24 hours after the notification was given to the EPA
C1	A Construction Environmental Management Plan (CEMP) must be prepared to detail how the performance outcomes, commitments and mitigation measures specified in the documents listed in Condition A1 will be implemented and achieved during construction.	This CEMP	This CEMP demonstrates how the performance outcomes, commitments and mitigation measures specified in the documents listed in CoA A1 will be implemented and achieved during construction. It has been prepared for Stage 3 Activity A under Staging Report Revision 6.03 (May 2020).
C2	The CEMP must provide:		
C2 (a)	A description of activities to be undertaken during construction (including the scheduling of construction)	Chapter 2	The project includes the construction of the light rail systems, high-voltage power supply and stops above slab level, and the stabling and maintenance facility. Section 2 provides an overview of the features of the project, general construction activities and the indicative construction schedule.
C2 (b)	Details of environmental policies, guidelines and principles to be followed in the construction of the CSSI;	Section 3.1, 3.2, 3.3	This CEMP, including sub plans, incorporates applicable environmental legislation, codes of practice, Australian Standards and other guidelines

			for the Project. GRCLR workers (including sub-contractors) will comply with relevant environmental and WHS legislation, codes of practice, industry standards and regulatory approvals as applicable to their work activities.
C2 (c)	A program for ongoing analysis of the key environmental risks arising from the activities described in subsection (a) of this condition, including an initial risk assessment undertaken before the commencement of construction of the CSSI;	Section 3.5	An Environmental Risk Assessment (ERA) was prepared for the project. The ERA will be reviewed every six months.
C2 (d)	<p>Details of how the activities described in subsection (a) of this condition will be carried out to:</p> <p>i) meet the performance outcomes stated in the documents identified in Condition A1; and</p> <p>ii) manage the risks identified in the risk analysis undertaken in subsection (c) of this condition;</p>	Chapter 8	<p>Mitigation measures identified in the ERA to manage the risks and achieve compliance with the performance outcomes of the documents identified in A1 will be incorporated into the CEMP sub plans.</p> <p>Compliance with the performance outcomes will be checked by the implementation of a comprehensive monitoring/inspection/auditing programme (Section 8).</p>
C2 (e)	An inspection program detailing the activities to be inspected and frequency of inspections;	Section 8.1	<p>The D&C Environment Manager and/or delegate will undertake pre-work inspections, weekly and pre and post-rainfall inspections of the work sites to evaluate the effectiveness of environmental controls.</p> <p>An environmental inspection checklist will be used to ensure that all environmental aspects are reviewed during inspection.</p>

			The ER, AA, IA, TfNSW and Independent Certifier will also undertake inspections
C2 (f)	A protocol for managing and reporting any: i) incidents; and ii) non-compliances with this approval and with statutory requirements.	Chapter 7 Section 8.6	In the event of an environmental incident, the protocol in Section 7 will be implemented. Section 8.6 sets out the protocol for managing and reporting non-compliances.
C2 (g)	Procedures for rectifying any non-compliance with this approval identified during compliance auditing, incident management or at any time during construction;	Section 8.6	Non-compliance shall be recorded in a corrective action report. The corrective action report will document the agreed actions and timeframes for addressing the environmental non-compliance.
C2 (h)	a list of all the CEMP Sub-plans required in respect of construction, as set out in Condition C3. Where staged construction of the CSSI is proposed, the CEMP must also identify which CEMP Sub-plan applies to each of the proposed stages of construction;	Section 4.4.2	A list of construction sub-plans for this Project, and their approval requirements, are provided in Section 4.4.2.
C2 (i)	a description of the roles and environmental responsibilities for relevant employees and their relationship with the ER;	Section 4.2	The key environmental management roles and responsibilities for the construction phase of the Project are described in Section 4.2. The GRCLR Environment and Sustainability Manager is the primary contact with the ER for this Project

C2 (j)	for training and induction for employees, including contractors and sub-contractors, in relation to environmental and compliance obligations under the terms of this approval;			Chapter 5	To ensure that this CEMP is effectively implemented, each level of management is responsible for ensuring that all personnel reporting to them are aware of the Project environmental and compliance obligations. This will be achieved through the Project induction or dedicated training.
C2 (k)	for periodic review and update of the CEMP and all associated plans and programs.			Section 9.2	Continual improvement is achieved through constant measurement and evaluation, audit and review of the effectiveness of the CEMP, and its adjustment and improvement. Monthly reviews undertaken by the ER and quarterly management reviews offer specific opportunities to identify improvements in the CEMP.
C3	The following CEMP sub-plans must be prepared in consultation with the relevant government agencies identified for each CEMP Sub-plan and be consistent with the CEMP referred to in Condition C1:			Section 1.2.2, 1.2.3 Section 4.4.2	The CEMP sub plans listed in CoA C3 will be prepared in consultation with the relevant government agencies. The records of consultation will be provided in the appendices of each sub plan.
		Required CEMP Sub-plan	Relevant government agencies to be consulted for each CEMP Sub-plan		
	(a)	Traffic, transport and access	Relevant Council(s), Roads and Maritime Services, Emergency Services		
	(b)	Noise and vibration	Relevant Council(s), EPA, NSW Health		

	(c)	Flood Management	Relevant Council(s), OEH (Department of Premier and Cabinet), Sydney Water	Information		
	(d)	Heritage	Relevant Council(s), OEH (Department of Premier and Cabinet)	Approval		
	(e)	Flora and Fauna Biodiversity	Relevant Council(s), OEH (Department of Premier and Cabinet)	Information		
C4	The CEMP Sub-plans must state how:				Sub-Plans (see C3 for list)	Mitigation measures identified in the ERA and documents listed in A1 to manage the risks and achieve compliance with the performance outcomes of the documents identified in A1 will be incorporated into the CEMP sub plans.
(a)	the environmental performance outcomes identified in the documents listed in Condition A1 will be achieved;				Sub-Plans (see C3 for list)	The relevant environmental performance outcomes are outlined in the Sub-plans. These targets were derived from the EIS to be measurable during the Project's inspections and monitoring.
(b)	the mitigation measures identified in the documents listed in Condition A1 will be implemented;				Sub-Plans (see C3 for list)	Compliance with the performance outcomes will be checked by the implementation of a comprehensive monitoring/inspection/auditing programme (Section 8).
(c)	the relevant terms of this approval will be complied with; and				Sub-Plans (see C3 for list)	Compliance with the performance outcomes will be checked by the implementation of a comprehensive monitoring/inspection/auditing programme (Section 8).

(d)	issues requiring management during construction as identified through ongoing environmental risk analysis, will be managed.	Sub-Plans (see C3 for list)	Specific management issues during construction are outlined in the Environmental Aspects and Impacts Section of each Sub-plan.
C5	The CEMP Sub-plans must be developed in consultation with relevant government agencies (including Relevant Council(s)). Details of all information requested by an agency to be included in a CEMP Sub-plan as a result of consultation, including all copies of correspondence from those agencies, must be provided to the Secretary with the relevant CEMP Sub-plan. (including Relevant Council(s)).	Sub-Plans (see C3 for list)	The CEMP sub plans will be developed in consultation with relevant government agencies, as required by CoA C3. Details of this consultation will be reported in the appendix of the corresponding sub plan, which will be provided to the Secretary in accordance with CoA C3.
C6	Any of the CEMP Sub-plans may be submitted along with, or subsequent to, the submission of the CEMP but in any event, no later than one month before construction.	Sub-Plans (see C3 for list)	The CEMP sub-plans will be submitted with or after the submission of the CEMP but in any event, no later than one month before construction.
C7	The CEMP must be endorsed by the ER and then submitted to the Secretary for approval no later than one month before the commencement of construction.	Section 4.3.1	This CEMP will be endorsed by the ER and provided to the Secretary for approval at least one month prior to the commencement of construction.
C8	Construction must not commence until the CEMP and any CEMP Sub-plan specified in Condition C3 have been submitted to or approved by the Secretary. The CEMP and CEMP Sub-plans submitted to or approved by the Secretary, including any minor amendments approved by the ER, must be implemented for the duration of construction. Where construction of the CSSI is staged, construction of a stage must not commence until the CEMP and Sub-plans for that stage have been submitted to or approved by the Secretary.	Section 4.3.1	Construction will not commence until the CEMP and the sub plans specified in CoA C3 are approved by the Secretary.

B11	A website providing information in relation to the CSSI must be established before commencement of works and maintained for the duration of construction, and for a minimum of 24 months following the completion of construction. Up-to-date information (excluding confidential commercial information) must be published before the relevant works commence, and maintained on the website or dedicated pages including:	Section 6.3	<p>The Project website (http://www.parramattalightrail.nsw.gov.au) includes current information on the Project.</p> <p>This website will be maintained for the duration of construction and for a minimum of 24 months following the completion of construction.</p> <p>Additional details on the Project website are provided in the Community Communication Strategy.</p>
(a)	information on the current implementation status of the CSSI;	Section 6.3	<p>The Project website (http://www.parramattalightrail.nsw.gov.au) includes the current implementation status of the Project.</p> <p>Additional details on the Project website are provided in the Community Communication Strategy.</p>
(b)	a copy of the documents listed in Condition A1 and Condition A2 of this approval, and any documentation relating to any modifications made to the CSSI or the terms of this approval;	Section 6.3	<p>The Project website (http://www.parramattalightrail.nsw.gov.au) includes the current implementation status of the Project.</p> <p>Additional details on the Project website are provided in the Community Communication Strategy.</p>
(c)	a copy of this approval in its original form, a current consolidated copy of this approval (that is, including any approved	Section 6.3	<p>The Project website (http://www.parramattalightrail.nsw.gov.au)</p>

	modifications to its terms), and copies of any approval granted by the Minister to a modification of the terms of this approval;		includes the current implementation status of the Project. Additional details on the Project website are provided in the Community Communication Strategy.
(d)	a copy of each statutory approval, licence or permit required and obtained in relation to the CSSI;	Section 6.3	The Project website (http://www.parramattalightrail.nsw.gov.au) includes statutory approvals. In the event that licence(s) or permit(s) are obtained, documentation will be included on the Project Website. Additional details on the Project website are provided in the Community Communication Strategy.
(e)	a current copy of each approved document required under the terms of this approval and any endorsements, approvals or requirements from the ER, AA and Secretary, all of which must be published before the commencement of any works to which they relate or before their implementation as the case may be; and	Section 6.3	The Project website (http://www.parramattalightrail.nsw.gov.au) will include approved documents required under the CoA and any endorsements, approvals or requirements from the ER, AA and Planning Secretary includes statutory approvals. Additional details on the Project website are provided in the Community Communication Strategy.
(f)	a copy of the compliance reports required under Condition A30 of this approval.	Section 6.3	The Project website (http://www.parramattalightrail.nsw.gov.au) will include a copy of the compliance reports required under Condition A30.

	Information relating solely to construction may be removed from the website 12 months following the completion of construction.		Additional details on the Project website are provided in the Community Communication Strategy.
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1.3.2 Revised Environmental Mitigation and Management Measures

Relevant REMMMs are listed in Table 1-4. This includes reference to required outcomes, relevant documents or sections references and how addressed.

Table 1-4: REMMMs relevant to the CEMP

REMMM	Requirement	Reference	How addressed
GEN-1	<p>A construction environmental management plan (CEMP) would be prepared for the construction phase of the Project. The CEMP would provide a centralised mechanism through which all potential environmental impacts would be managed. The CEMP would document mechanisms for demonstrating compliance with the commitments made in the Environmental Impact Statement), the submissions report, as well as any other relevant statutory approvals (e.g. conditions of approval, licences and permits). The CEMP would outline a framework for the management of environmental impacts during construction, including further details on the following:</p> <ul style="list-style-type: none">• Traffic, transport and access management.• Noise and vibration management.• Heritage management.• Air quality and dust management.• Soil and water management.• Flora and fauna management.• Waste and resource management.• Site compound and ancillary works management.• Landscape and temporary works management.	<p>This CEMP Sub-Plans (see C3 for list)</p>	<p>This CEMP and management sub plans demonstrate how the construction of the Project will be carried out in accordance with the requirements of GEN-1.</p> <p>All relevant commitments are listed in each sub plan with a reference of where and how it is addressed.</p>

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> Emergency and incident response management. <p>The CEMP would be prepared by the responsible contractor(s) and approved by the Secretary of the NSW Department of Planning and Environment.</p>		
GEN-2	<p>A construction compounds plan would be prepared for the Project as part of the overall CEMP. This sub-plan would set out details for each of the approved construction compounds, including stockpile areas, laydown areas and other ancillary activities required to construct the Project. The sub-plan would supplement, in greater detail, the information provided in the main body of the CEMP. The objectives and strategies of the construction compounds and ancillary facilities management sub-plan would include the following:</p> <ul style="list-style-type: none"> Minimise the impact of construction compounds on surrounding land uses and sensitive receivers. Locate construction compounds away from sensitive land uses and receivers, wherever practical and feasible, or configure internal compound layouts in a manner that considers noise and light sensitive receivers (e.g. use of buildings to shield noisy activities, minimising the requirement for reversing vehicles, or locating noise intensive activities to maximise the distance to noise sensitive receivers). Manage stockpile areas to minimise potential pollution of watercourses, groundwater and local air quality. Minimise the clearing of vegetation (e.g. street trees and trees within public open spaces) to the minimum amount necessary to 	Site Establishment Management Plan	<p>A Site Establishment Management Plan has been prepared to set out details for each of the construction compounds, stockpile areas, laydown areas and other ancillary activities required to construct the Project.</p> <p>The SEMP identifies the environmental mitigation measures to minimise the impact of construction compounds on surrounding land uses and sensitive receivers.</p>

REMMM	Requirement	Reference	How addressed
	<p>construct the Project, particularly where construction compounds are proposed in public open spaces/parkland areas.</p> <ul style="list-style-type: none"> • Locate construction compounds away from (or able to be managed in such a way so as to not impact on) heritage items and high retention value trees. • Locate construction compounds away from or implement management measures so as to not impact on waterways. • Flood response measures for compounds that are located on land affected by the 20-year ARI flood level (e.g. bridge support construction compounds). • Situate construction compounds and ancillary facilities on relatively level ground and avoid excavation in construction compounds where risk of heritage impacts or disturbance of contaminated material. • Minimise the visual impact of construction compounds and ancillary facilities through either siting such facilities away from sensitive receivers (where practical and feasible) and/or providing screening. • Reinstatement strategies for construction compounds. As a minimum, this would include: <ul style="list-style-type: none"> ◦ At the completion of construction, all plant, temporary buildings or vehicles would be removed. ◦ All land, including roadways, footpaths or other land having been occupied temporarily would be returned to their pre-existing condition or better. 		

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> Reinstatement of community spaces, infrastructure and services would occur as soon as possible after completion of construction. <p>Environmental management measures for construction compounds would be developed as part of the overall CEMP, with the construction compounds sub-plan identifying where such measures are documented within the CEMP.</p>		
GEN-3	<p>Incident management procedures would be developed as part of the CEMP. The procedures would clearly outline the process to be followed in the event of an environmental incident or noncompliance, including (but not limited to) the following:</p> <ul style="list-style-type: none"> Classification of the incident (e.g. minor, moderate, serious) based on the severity of the likely impact on the surrounding environment and community. Emergency response procedures. Notification requirements (e.g. Transport for NSW and/or other regulatory authorities, or owners/occupiers in the vicinity of the incident). Mechanisms for improving environmental controls to reduce the likelihood of a similar incident occurring. Incident reporting and tracking. 	Chapter 7	Section 7 sets out how environmental incidents will be managed.
BI-3	<p>A flora and fauna management plan would be prepared as part of the CEMP. Specific measures would be identified in consultation with relevant government agencies.</p> <p>The flora and fauna management plan would include the following:</p>	Flora and Fauna Management Plan	A Flora and Fauna Management Plan FFMP has been prepared together with the CEMP and will be submitted separately as a stand-alone document.

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> • A requirement to prepare Environmental Control Maps in accordance with Transport for NSW's Guide to Environmental Control Map. The maps would delineate ecologically sensitive areas (such as habitat areas or locations of threatened species, populations or ecological communities), clearing extents, vegetation to be retained, and any other no-go areas. • Procedures for the clearing of vegetation and the relocation of flora and fauna. Where possible, the removal of native vegetation would be minimised as far as practicable. Measures to minimise the removal of native vegetation would include: <ul style="list-style-type: none"> ◦ Use of high visibility fencing (such as barrier mesh) to delineate vegetation to be retained or limits of clearing. ◦ A trained ecologist would accompany clearing crews in order to ensure disturbance is minimised and to assist any native animals to relocate to adjacent habitat. • Measures to reduce disturbance to sensitive fauna. • Rehabilitation requirements, including identification of flora species and sources, and measures for the management and maintenance of rehabilitated areas (including for example a program of weed removal and monitoring). • Weed management measures focusing on monitoring for early identification of invasive weeds and pathogens and detailed effective management controls for minimising the risk of introducing weeds and pathogens. 		<p>This FFMP provides mitigation measures to minimise impacts on flora and fauna from the construction of the Project.</p>

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> • Procedure for dealing with unexpected identification of Endangered Ecological Communities or threatened species during construction. • Auditing and monitoring of the plan. 		
AB-2	<p>An Aboriginal and non-Aboriginal heritage management plan would be prepared as part of the CEMP. Specific measures would be identified in consultation with NSW Environment, Energy and Science Group (DPIE) (OEH) and other relevant government agencies. As relevant, the plan would be developed in consultation with Registered Aboriginal Parties.</p> <p>The objectives and strategies of the plan would include the following:</p> <ul style="list-style-type: none"> • Minimise impacts on items or places of heritage value. • Procedures for carrying out salvage or excavation of heritage relics or sites (where relevant) and any recordings of heritage relics prior to works commencing that would impact the heritage relic or site. • Procedures for interpretation of heritage values uncovered during salvage or excavation during detailed design. • Details on management measures to be implemented to prevent and minimise impacts on heritage items (including further heritage investigations, archival recordings and/or measures to protect unaffected sites during construction works in the vicinity). • Procedures for unexpected heritage finds, including procedures for dealing with human remains (and burials). The Transport for 	<p>Heritage Management Plan</p> <p>Aboriginal Heritage Management Plan</p>	<p>Heritage and Aboriginal Heritage Management Sub Plans have been prepared together with the CEMP and will be submitted separately as a stand-alone documents.</p> <p>The HMSP and AHSP provide mitigation measures to minimise impacts on heritage items from the construction of the Project and will be implemented for the duration of the Project.</p>

REMMM	Requirement	Reference	How addressed
	<p>NSW Unexpected Heritage Finds Guideline (2014) would be implemented.</p> <ul style="list-style-type: none"> Procedures for the reinstatement of areas of heritage value that would be temporarily impacted by construction following the completion of construction. Heritage monitoring and auditing requirements. 		
HY-5	<p>The CEMP would include soil and water management measures to manage the risk of sedimentation, littering and chemical pollution of the Parramatta River, Clay Cliff Creek, Vineyard Creek and other nearby waterways within the study area during construction.</p>	Soil and Water Management Plan	<p>A Soil and Water Management Plan has been prepared together with the CEMP and will be submitted separately as a stand-alone document. The plan includes management measures to manage the risk of sedimentation, littering and chemical pollution.</p>
HY-6	<p>A soil and water management plan would be prepared as part of the CEMP. Specific measures would be identified in consultation with relevant government agencies and would be consistent with the principles and practices detailed in Landcom's (2004) Managing Urban Stormwater: Soils and Construction. The objectives and strategies of the soil and water management sub-plan would include the following:</p> <ul style="list-style-type: none"> Minimise the extent and duration of exposed surfaces (particularly those works that have the greatest potential to disturb soils that are contaminated or have a high erosion and runoff hazard). 	Soil and Water Management Plan	<p>A Soil and Water Management Sub Plan has been prepared together with the CEMP and will be submitted separately as a stand-alone document. The plan includes management measures to minimise impacts on soil and water from the construction of the Project which will be implemented for the duration of the Project and are consistent with the principles and practices detailed in Landcom's (2004) Managing Urban Stormwater: Soils and Construction.</p>

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> • Develop and implement adequate water quality control measures prior to the carrying out of significant earthwork or bridge construction activities. • Minimise and manage impacts on water quality and downstream receiving environments during instream activities. • Flood response measures for activities located on land affected by the 20-year ARI flood level (e.g. bridge support construction compounds) or works within waterways (such as bridge works). • Where possible, reuse excavated materials as fill on other parts of the Project in preference to disposing off-site in accordance with OEH's <i>Waste Classification Guidelines (2016)</i>. • Areas of potential contamination concern would be identified and works in these areas managed to minimise disturbance. • Excavate pre-classified contaminated materials and transfer such materials directly into haulage trucks for off-site disposal at a waste facility licensed to accept the contaminated material. • Transport for NSW would also undertake consultation with DPI Fisheries with respect to the development for the CEMP, and Erosion and Sediment Control Plan for the Project. • Develop procedures for the assessment, handling and stockpiling of potentially contaminated materials, in accordance with OEH's <i>Waste Classification Guidelines (2016)</i>. 		
WM-2	A waste and resource management plan would be prepared for the Project as part of the overall CEMP. This plan would set out details for managing waste generation and resource consumption. The plan would be informed by the Parramatta Light Rail Sustainability Plan	Waste and Resource	A Waste and Resource Management Plan has been prepared together with

REMMM	Requirement	Reference	How addressed
	<p>and the requirements of the Waste Avoidance and Resource Recovery Act 2001.</p> <p>The objectives and strategies of the waste and resource management plan would include the following:</p> <ul style="list-style-type: none"> ◦ Construction waste would be managed through the waste hierarchy established under the Waste Avoidance and Resource Recovery Act 2001 management hierarchy. ◦ Classification of waste during construction in accordance with the current guidelines ◦ Segregation of waste into stockpiles of spoil, concrete, steel, timber, paper and cardboard and vegetation to make it easier to recycle components and prevent cross contamination. ◦ Procurement of materials would be carried out on an 'as needed' basis to reduce over-ordering and wastage, and exploring opportunities to reuse materials, where applicable. • Targets for the recovery, recycling or reuse of construction waste, and beneficial reuse of spoil. A Construction Waste, Reuse, Recycling and Energy Plan would be prepared as part of the CEMP. It would ensure resource and materials use, waste disposal and energy use are minimised by tracking and reporting performance, and applying corrective action as required. • Identification of carbon and energy strategies and initiatives to minimise carbon and energy use associated with construction (e.g. selection of equipment, inclusion of renewable energy sources to power temporary facilities and equipment, designing site offices for energy efficiency, and efficient operation of vehicles and equipment). 	Management Plan	<p>the CEMP and will be submitted separately as a stand-alone document.</p> <p>This plan sets out details for managing waste generation and resource consumption on the Project.</p> <p>The plan was informed by the Parramatta Light Rail Sustainability Plan and the requirements of the <i>Waste Avoidance and Resource Recovery Act 2001</i>.</p>

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> Consideration of materials mitigation and management measures including use of recycled materials, recycling and reuse of materials on site, use of materials with lower embodied impact, and consideration of whole of life costs during procurement. Prior to disposal/removal or reuse off-site, all wastes would be classified in accordance with the waste classification guidelines (<i>Waste Classification Guidelines (OEHL, 2016)</i> and <i>Waste Avoidance and Resource Recovery Strategy 2014-2021 (EPA, 2014)</i> to ensure the most appropriate disposal or reuse option. Monitoring and compliance requirements. 		
HR-5	<p>Environmental management measures relating to hazards and risk would be developed and implemented as part of the CEMP. These would include:</p> <ul style="list-style-type: none"> Potential environmental hazards and risks associated with construction activities would be identified prior to construction. The storage of hazardous materials, and refuelling/maintenance of construction plant and equipment would be carried out in clearly marked and bunded areas within the construction site that are designed to contain spills and leaks in accordance with Australian Standards and DECCW guidelines. Hazardous materials would not be stored below the ten per cent AEP flood level flood level. Chemical spill kits would be readily available and accessible to construction workers. Kits would be kept at site compounds and on specific construction vehicles, and all hazardous materials 	Section 3.5 Sub-Plans required under CoA C3.	<p>An Environmental Risk Assessment (ERA) was prepared for the project to identify hazards and risks, and to develop appropriate management measures (Appendix A2).</p> <p>The environmental management measures identified in the ERA have been incorporated into the CEMP and relevant sub plans.</p> <p>The SWMP provides management measures for the storage of hazardous materials, refuelling/maintenance of construction plant and spill response.</p> <p>The ECM will provide the location of hazardous material storage and the location of spill kits. ECMs will be</p>

REMMM	Requirement	Reference	How addressed
	<p>spills and leaks would be reported to site managers and actions would be immediately taken to remedy spills and leaks.</p> <ul style="list-style-type: none"> Employees would be trained in the correct use of spill kits. 		prepared and maintained through the project EMS..
HR-6	A process for regularly reviewing work practices/procedures would be implemented throughout construction to identify, report and respond to any new environmental hazards/risks.	Section 3.5, 7.5, 9.1, 9.2 Sub plans	An ERA was prepared for the project. The ERA will be revised every three months, or in response to an incident.
CC-2	Construction-related climate change risks (e.g. increased frequency and severity of extreme rainfall events placing increased pressure on construction water quality control measures) would be considered during the development of environmental management measures as part of the CEMP.	Section 3.5 Appendix A2 Sub plans	The ERA has addressed climate change risk and the corresponding mitigation measures have been incorporated into the management sub plans.
VL-13	<p>A landscape and temporary works management plan would be developed as part of the CEMP. The plan would include the following:</p> <ul style="list-style-type: none"> Approaches to temporary construction works (hoardings etc.) that consider urban design and visual impacts, including: <ul style="list-style-type: none"> Artwork, graphics and images to enhance the visual appearance of temporary works in high visibility locations. Project information to raise awareness on benefits, explain the proposed works at each site and provide updates on construction progress. 	Landscape and Temporary Works Plan	The Landscape and Temporary Works Plan has been prepared together with this CEMP and can be provided for information if requested by DPIE.

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> Community information, including contact numbers for enquiries/complaints. Signage and information to mitigate impacts on local businesses which may be obscured by the construction site. Apply the principles of crime prevention through environmental design (CPTED) to all works, including temporary works that have a public interface. Apply the principles of Australian Standard 4282-1997 Control of the obtrusive effects of outdoor lighting and relevant safety design requirements and detail mitigation and management measures to minimise lighting impacts on sensitive receivers for all permanent, temporary and mobile light sources. Wherever feasible and reasonable, vegetation around the perimeter of the construction sites will be maintained. Measures to minimise direct and visual impacts on heritage items from works within the curtilage of or in the vicinity of heritage items. Regular inspections of construction hoardings and scaffolding to keep it clean and free of dust build up, with graffiti on construction hoardings and scaffolding to be removed or painted over promptly. 		
AQ-1	An air quality and dust management plan would be developed and implemented as part of the CEMP. This plan would identify triggers and procedures for dealing with significant dust generating activities, with the aim of minimising impacts on surrounding sensitive receivers. Air quality and dust management measures that would be identified in the CEMP would include:	Air Quality Management Plan	An Air Quality Management Plan has been prepared together with the CEMP and will be submitted separately as a stand-alone document. The plan identifies triggers and procedures for dealing with significant

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> • Apply wheel-wash or rumble grid facilities as appropriate to remove loose material and prevent the tracking of spoil debris onto local roads. • Clean loose materials and debris from the tailgate of vehicles unloading materials to stockpiles prior to departure from site. • Conduct routine servicing and maintenance, and subsequent inspections to ensure that equipment continues to operate efficiently. • Ensure that all loads are covered when materials are being hauled to and from site. • Ensure that compound area surfaces are well compacted or sealed to limit the potential for dust generation. • Ensure that structures are inspected by a suitably qualified person to confirm that they do not contain any hazardous materials (e.g. asbestos) which could be broken and mobilised during demolition. Where such materials are identified, adhere to the requirements for removal and disposal listed in the Work Health and Safety Act 2011, and Work health and Safety Regulation 2011. • Impose low speeds limits around compound sites to limit the generation of dust from vehicle movements. • Install dust monitoring devices to quantify dust levels and determine whether control measures are adequate or whether further actions are required. • Installation of perimeter screening around areas where there is a potential to generate emissions to air and around long-term compound and stockpile locations. 		dust and air pollution generating activities, with the aim of minimising impacts on surrounding sensitive receivers and the environment.

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> • Plan activities and avoid adversely windy conditions which may result in the generation of off-site dust impacts. • Position stockpiling areas as far as possible from surrounding receivers. • Regularly water exposed and disturbed areas and stockpiles especially during inclement weather conditions. • Water demolition areas as necessary to minimise the generation of dust. • Wherever possible and practical, limit the amount of materials stockpiled, extent of disturbed and exposed surfaces. Restoration of cleared areas is to occur as soon as possible. • Apply odour supressing agents to materials as necessary to minimise related impacts should any contaminated or hazardous materials be uncovered during the works. • Construction plant and equipment would be well maintained and regularly serviced so that vehicular emissions remain within relevant air quality guidelines and standards. • All vehicles used on site, for transporting materials to or from site, or for any other activities associated with the Project, shall be maintained to avoid the emission of excessive air impurities in accordance with Part 5.8 of the Protection of the Environment Operations Act 1997 and the Protection of the Environment Operations (Clean Air) Regulation 2010. • All on-road trucks would comply with the relevant Australian emission standards. 		

REMMM	Requirement	Reference	How addressed
	<ul style="list-style-type: none"> All chemicals and fuels would be stored in sealed containers as per appropriate regulations and guidelines. The on-site storage of fuel would be kept to a minimum. Unloading of fuels (diesel or liquefied nitrogen gas (LNG)) would be vented via return hoses that recirculate vapours from delivery to receiver. On dry days, unsurfaced haul roads would be watered to aid dust suppression. Stockpiles left for extended periods would be grassed or covered with appropriate material. Chemical/fuel storage tanks would be fitted with a conservation vent (to prevent air inflow and vapour escape until a pre-set vacuum or pressure develops). 		
GG-4	Management of emissions would be incorporated into site inductions, training and pre-start talks.	Section 5.1	Sustainability requirements, including reducing greenhouse gas emissions by implementing energy efficient practises will be included in the project induction

1.3.3 Environmental Performance Outcomes

Relevant EPOs are listed in Table 1-5. This includes reference to required outcomes, relevant documents or sections references and how addressed.

Table 1-5: EPOs relevant to the CEMP

EPO	Requirement	Reference	How addressed
EPO-TT-1 Construction	The project would implement measures to minimise impacts on the road network, including staging	Transport and Access Management Plan	This EPO requirement is addressed in the Traffic, Transport and Access Management Plan prepared together with the CEMP and submitted separately. The plan includes management measures to minimise impacts on the road network.
EPO-TT-2 Construction	Pedestrian and cyclist safety would be maintained.	Transport and Access Management Plan	This EPO requirement is addressed in the Traffic, Transport and Access Management Plan prepared together with the CEMP and submitted separately. The plan includes management measures to maintain pedestrian and cyclist safety.
EPO-TT-3 Construction	Effective coordination would be carried out to minimise cumulative network impacts.	Transport and Access Management Plan	This EPO requirement is addressed in the Traffic, Transport and Access Management Plan prepared together with the CEMP and submitted separately. The plan includes management measures to minimise cumulative network impacts.

EPO	Requirement	Reference	How addressed
EPO-TT-4 Construction	Access to property would be maintained	Transport and Access Management Plan	This EPO requirement is addressed in the Traffic, Transport and Access Management Plan prepared together with the CEMP and submitted separately. The plan includes management measures to maintain property access.
EPO-NV-1 Construction	Noise levels would be minimised with the aim of achieving the noise management levels where feasible and reasonable.	Noise and Vibration Management Plan	This EPO requirement is addressed in the Noise and Vibration Management Sub Plan prepared together with the CEMP and submitted separately. The plan includes management measures to ensure noise levels would be minimised with the aim of achieving the noise management levels where feasible and reasonable.
EPO-NV-2 Construction	The project would avoid any damage to buildings or heritage items from vibrations.	Noise and Vibration Management Sub Plan	This EPO requirement is addressed in the Noise and Vibration Management Plan (CNVMP) prepared together with the CEMP and submitted separately. The plan includes management measures to avoid any damage to buildings or heritage items from vibrations.
EPO-HE-2	The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts to non-Aboriginal heritage items and archaeology.	Heritage Management Plan	This EPO requirement is addressed in the Heritage Management Plan prepared together with the CEMP and

EPO	Requirement	Reference	How addressed
			submitted separately. The plan includes management measures to minimise impacts to heritage items during construction. Not applicable to Stage 3 Activity A under Staging Report Revision 6.03 (May 2020).
EPO-AB-1	The project would be sympathetic to heritage items and, where feasible and reasonable, avoid and minimise impacts on Aboriginal heritage items and archaeology.	Aboriginal Heritage Management Plan	This EPO requirement is addressed in the Aboriginal Heritage Management Plan (AHMP) prepared together with the CEMP and submitted separately. The plan includes management measures to minimise impacts to Aboriginal heritage items and archaeology during construction.
EPO-HY-1	No aspect of the project would materially adversely affect existing flood behaviour in the vicinity of the project.	Flood Management Plan	This EPO requirement is addressed in the Flood Management Plan (FMP) prepared together with the CEMP and submitted separately. The plan includes management measures to ensure the project would not materially adversely affect existing flood behaviour in the vicinity of the project.
EPO-LU-2	Access to private property would be maintained.	Transport and Access Management Plan	This EPO requirement is addressed in the Traffic, Transport and Access Management Plan (TTAMP) prepared

EPO	Requirement	Reference	How addressed
			together with the CEMP and submitted separately. The plan includes management measures to maintain property access.
EPO-BI-1	The project would minimise impacts on biodiversity through the implementation of relevant mitigation measures and the implementation of the Biodiversity Offset Strategy (BOS) for the project.	Flora and Fauna Management Plan	Not triggered by SOM Contract under Staging Report Revision 6.03 (May 2020).
EPO-SG-1	Erosion and sediment controls during construction would be implemented in accordance with Managing Urban Stormwater: Soils and Construction Volume 1 (Landcom, 2004) and Managing Urban Stormwater: Soils and Construction Volume 2 (Department of Environment and Climate Change, 2008a).	Soil and Water Management Sub Plan	<p>This EPO requirement is addressed in the Soil and Water Management Plan (SWMP) has been prepared together with the CEMP and submitted separately.</p> <p>This plan provides mitigation measures to minimise impacts on soil and water from the construction of the Project and is consistent with the principles and practices detailed in <i>Managing Urban Stormwater: Soils and Construction Volume 1</i> (Landcom, 2004) and <i>Managing Urban Stormwater: Soils and Construction Volume 2</i> (Department of Environment and Climate Change, 2008a).</p>
EPO-SG-2	There would be no impacts on aquatic environments associated with the disturbance of ASS during construction.	Soil and Water Management Plan	This EPO requirement is addressed in the Soil and Water Management Plan

EPO	Requirement	Reference	How addressed
		Contaminated Land Management Plan	<p>(SWMP) and Contaminated Land Management Plan (CLMP) prepared together with the CEMP and submitted separately.</p> <p>The plans provide mitigation measures to ensure there are no impacts on aquatic environments associated the disturbance of ASS during construction.</p>
EPO-SG-3	Any contamination on project sites would be remediated to suit future land use.	Contaminated Land Management Plan	<p>This EPO requirement is addressed in the Contaminated Land Management Plan (CLMP) prepared together with the CEMP and submitted separately.</p> <p>The plan details the required remediation associated with the construction of the Project.</p>
EPO-SU-1	The project would be carried out in accordance with the Parramatta Light Rail Sustainability Strategy.	Section 4.4.3 Ref PLR1SOM-GLR-ALL-PM-PLN-000015	<p>TfNSW will prepare the Sustainability Strategy (to comply with CoA E136) for the PLR including the Project. However, the management of sustainability requirements associated with the design and delivery of the Project have been addressed in the Sustainability Management Plan.</p> <p>This management plan will demonstrate how the relevant commitments in the Sustainability</p>

EPO	Requirement	Reference	How addressed
			<p>Strategy (CoA 136) and the TfNSW Standard Requirements 4.1 (a) will be implemented on this Project.</p> <p>Regular monitoring, auditing and reporting on energy, resource use and associated greenhouse gas emissions as required by the Infrastructure Sustainability Council of Australia (ISCA) rating of 70 are addressed in the PLR Sustainability Strategy and the Project's Sustainability Management Plan.</p>
EPO-SU-2	The project would comply with the relevant requirements of the NSW Government Resource Efficiency Policy.	Waste and Resource Management Plan	This EPO requirement is addressed in the Waste and Resource Management Plan (WRMP) prepared together with the CEMP and submitted separately.

2 Project Description

2.1 General Features and Construction Activities

Table 2-1 provides an overview of the general features of the Project. Note that this CEMP is only for the construction works at the Stabling and Maintenance Facility. The CEMP will be revised to include the remainder of the SOM works, at a later date, in line with the delivery program of the SOM works which are dependent on the works of other interface contractors.

Table 2-1: Overview of the Project

Main works area	Site establishment	Earthworks and subsurface works	Civil works	Rail systems	Structures	Stops
Stabling and Maintenance Facility (The facility will provide for maintenance, repair, refurbishing, upgrading, stabling, cleaning of light rail vehicles and a base for infrastructure maintenance activities and will operate 24 hours a day and 7 days a week)	Site office and amenities	<ul style="list-style-type: none"> • Combined service route • Drainage • Hydraulics (sewer, water, fire) 	<ul style="list-style-type: none"> • Fencing • Service roads • Footpaths • Carparks • Landscaping • Substation – TPS 8 	<ul style="list-style-type: none"> • Track • Overhead wiring • DC feeders 	<ul style="list-style-type: none"> • Maintenance building (construction of foundation and slab, structural frame, roofing and cladding, MEP fit out, finishes) • Outbuildings (fire pump house, sanding plant building, cleaners store, train wash building) • 	None.

Main works area	Site establishment	Earthworks and subsurface works	Civil works	Rail systems	Structures	Stops
Corridor Zone 1 (Westmead to Riverside Theatre)	N/a	N/a	Substation – TPS 1 & TPS 2	<ul style="list-style-type: none"> Overhead wiring - Cumberland Hospital stop to Prince Alfred Square stop <ul style="list-style-type: none"> DC feeder reticulation TPS 2 to Prince Alfred Square stop TPS 2 to Cumberland Hospital stop TPS 2 to TPS 1 TPS 1 to Westmead Terminus stop 	N/a	<ul style="list-style-type: none"> Westmead Terminus Westmead Hospital Westmead Children's Hospital Cumberland Hospital Factory Street Fennel Street Prince Alfred Square
Corridor Zone 2 (Riverside Theatre to Robin Thomas Reserve)	N/a	N/a	Substation – TPS 3	<ul style="list-style-type: none"> DC feeder reticulation <ul style="list-style-type: none"> Tramway Avenue stop to TPS 3 	N/a	<ul style="list-style-type: none"> Eat Street Parramatta Square Harris Street

Main works area	Site establishment	Earthworks and subsurface works	Civil works	Rail systems	Structures	Stops
				<ul style="list-style-type: none"> TPS 3 to Prince Alfred Square 		
Corridor Zone 3 (Robin Thomas Reserve to Parramatta River)	N/a	N/a	Substation – TPS 4	<ul style="list-style-type: none"> Overhead wiring -Tramway Avenue to Camellia stop DC feeder reticulation – TPS 4 to Tramway Avenue stop 	N/a	<ul style="list-style-type: none"> Tramway Avenue Camellia
Corridor Zone 4 (Sandown Rail Line)	N/a	N/a	N/a	<ul style="list-style-type: none"> Overhead wiring - Sandown Rail Line DC feeder reticulation - Sandown Rail Line 	N/a	N/a
Corridor Zone 5 (North of Parramatta River to Carlingford)	N/a	N/a	Substation – TPS 6 & TPS 7 Back up Operations Control Centre	<ul style="list-style-type: none"> Overhead wiring <ul style="list-style-type: none"> Camellia stop to Rydalmere stop 	N/a	<ul style="list-style-type: none"> Rydalmere Dundas Telopea Carlingford

Main works area	Site establishment	Earthworks and subsurface works	Civil works	Rail systems	Structures	Stops
				<ul style="list-style-type: none"> ◦ Rydalmere stop to Dundas stop ◦ Dundas stop to Telopea stop ◦ Telopea stop to Carlingford stop • DC feeder reticulation <ul style="list-style-type: none"> ◦ TPS 6 to field switches ◦ TPS 7 to TPS 6 ◦ TPS 7 to Carlingford stop 		

2.2 Construction Sequencing

An indicative construction programme is provided in **Table 2-2**. This program is consistent with the Parramatta Light Rail (Stage 1) Westmead to Carlingford via Parramatta CBD and Camellia Staging Report (Project Wide) Revision 6.03 – May 2020.

Table 2-2: Indicative construction programme

Main works area	Start date	Finish date
SaM facility	May 2020	August 2022
Corridor Zone 1 (Westmead to Riverside Theatre)	04 April 2022	October 2022
Corridor Zone 2 (Riverside Theatre to Robin Thomas Reserve)	02 May 2022	November 2022
Corridor Zone 3 (Robin Thomas Reserve to Parramatta River)	06 October 2021	September 2022
Corridor Zone 4 (Sandown Rail Line)	06 October 2021	December 2021
Corridor Zone 5 (North of Parramatta River to Carlingford)	06 October 2021	March 2022

2.3 Ancillary Facilities

Table 2-3 provides a list of the ancillary facilities that would be required by the Project during the construction of the SaMF site. Each facility would be established in accordance with the Site Establishment Management Plan (SEMP) which has been developed for this Project and planning approval will be sought for those sites not listed in the EIS.

Table 2-3: Ancillary facilities

Facility location	Start date	Finish date
6 Grand Avenue, Camellia	01 August 2020	August 2022
8, Colquhoun Street, Rosehill	01 August 2020	August 2022

3 Planning

3.1 Project Environmental Obligations

All personnel involved in the Project must adhere to the Project's environmental requirements, including:

- No work will commence without relevant environmental approvals, permits or licences in place
- Everyone holds responsibility to understand the project obligations and to ensure the necessary controls are in place to meet these obligations
- Before commencing work ensure environmental risks have been assessed and corresponding controls are in place to mitigate the risk to an acceptable level
- Comply with all project procedures
- Report all environmental incidents immediately
- Comply with all relevant environmental legislation, at all times
- Undertake and provide training to all employees on environmental requirements
- Hold each other accountable for environmental management
- Understand usage of energy and water and plan to use it in the most efficient manner practical to meet our sustainability targets.

3.2 Legal and Other Requirements

A register of relevant legislation for the Project is contained in Appendix A1. This register will be reviewed at regular intervals, such as during management reviews and after audits, and updated with any applicable changes in legislation. Any changes made to the legal requirements register will be communicated to the wider project team, including subcontractors where necessary through toolbox talks, specific training and other methods detailed in Section 5 of this CEMP.

A number of environmental management sub-plans support the CEMP. These documents are prepared to identify requirements and processes applicable to specific impacts or aspects of the Project. These management sub-plans also contain details on relevant legislation.

A complete list of the Minister's CoA, REMMM and EPOs would be included in the Project's Compliance Tracking Program (CTP). The CTP is managed by TfNSW and has been provided to DPIE for information. The timing, compliance status, responsibility and evidence or reference of compliance would be included in the compliance reports undertaken as described in the CTP (Section 8.4).

3.3 Guidelines and Specifications

The main guidelines and specifications relevant to this CEMP include:

- Guideline for the preparation of Environmental Management Plans (DIPNR, 2004).
- AS/NZS ISO14001: 2004, 'Environmental Management Systems - requirements with guidance for use'
- Post-approval requirements for State significant projects: Management Plan Guidelines (Draft March 2017).

- TfNSW Environmental Incident Classification and Reporting 9TP-PR-105
- TfNSW Guide to Environmental Incident and Non-compliance Reporting using the INX System 9TP-SD-005
- TfNSW Guide to Environmental Control Map (3TP-SD-015/8.0)
- AS/NZS 4360:2004 Risk Management Standards
- AS/NZS 3100:2009, Risk Management Principles and Guidelines (ISO 31000 – Risk Management)
- AS/NZS ISO 19011:2014 - Guidelines for Auditing Management Systems.

The sub plans to this CEMP also contain details of legislation, guidelines, standards and specifications relevant to each sub-plan.

3.4 Approvals, Permits and Licensing

In addition to the Project Planning Approval, provided to TfNSW by DPIE on 29 May 2018, as modified 21/12/18 and 25/01/19, GRCLR is required to secure the following permits and licences listed in Table 3-1.

Table 3-1: Approvals, Licenses, Permits and Requirements

Regulatory authority	Approvals/licences required
DPIE	The Planning Approval was issued by the DPIE on 29/05/18 and modified on 21/12/18 and 25/01/19.
Environment Protection Authority (EPA)	Based on Clause 33(4)(d) of Schedule 1 of the <i>POEO Act</i> the Project is only required to have an Environment Protection Licence for the construction of the signalling and rail systems.
Roads and Maritime Services (RMS)	Section 138 of the <i>Roads Act 1993</i> requires that GRCLR obtain consent of the appropriate roads authority for the erection of a structure, or the carrying out of a work in, on or over a public road, or the digging up or disturbance of the surface of a public road. If the applicant is a public authority, the roads authority must consult with the applicant before deciding whether or not to grant consent or concurrence. Parramatta Light Rail Project Collaboration Agreement between TfNSW and RMS provides for authorisation for RMS to use its Road Authority power for works along the corridor and in the areas of Off Corridor Works.
Rural Fire Service	Exemption to allow hot works to be undertaken on total fire ban days as detailed under Section 99 of the <i>Rural Fires Act 1997</i> will be sought, if required.

The following authorisations are not required for CSSI projects and therefore are not applicable to this Project:

- The concurrence under Part 3 of the *Coastal Protection Act 1979* of the Minister administering that Part of that Act
- A permit under section 201, 205 or 219 of the *Fisheries Management Act 1994*
- An approval under Part 4, or an excavation permit under section 139, of the *Heritage Act 1977*
- An Aboriginal heritage impact permit under section 90 of the *National Parks and Wildlife Act 1974*
- An authorisation referred to in section 12 of the *Native Vegetation Act 2003* (or under any Act repealed by that Act) to clear native vegetation or state protected land
- A bush-fire safety authority under section 100B of the *Rural Fires Act 1997*
- A water use approval under section 89, a water management work approval under section 90 or an activity approval (other than an aquifer interference approval) under section 91 of the *Water Management Act 2000*.

3.5 Environmental Aspect and Impacts

An environmental risk assessment workshop was held on 21 February 2020 and included in this CEMP. The ERA is a live document and ongoing review will be undertaken every six months and prior to key construction milestones, to ensure any changes to the risks are identified as the Project progresses. The ERA will also be reviewed in response to significant issues, incidents and non-compliances. This ongoing review will include TfNSW, the ER and key construction personnel.

Key aspects identified include:

- Noise impacts from out of hours works;
- Uncontrolled discharge of water from site;
- Contaminated land and water management;
- Dust and air quality impacts;
- Impact on local roads from construction traffic (light and heavy vehicles).

The environmental risk assessment workshop was undertaken by GRCLR staff, and key D&C contractors, from the following disciplines:

- Planning, environment and sustainability;
- Construction management;
- Program and planning;
- Design;
- Safety; and
- Project Directors.

Each activity was assessed to identify the relevant steps in the activity and the associated environmental hazards, initial risk levels, mitigation measures and to avoid, manage and/or minimise the risks and residual risks. Each of these items is documented in the environmental risk register (Appendix A2). Where relevant, the requirements from the Deed, CoA and REMMM will be incorporated into the environmental risk assessment, particularly in developing the specific site controls.

3.6 Environmental and Sustainability Policy

The GRCLR Environmental and Sustainability Policy (provided in Appendix A3) was issued on 28 November 2019 and has been signed by the GRCLR Project Director. Details on the policy are provided in 3.6.1 and 3.6.2.

3.6.1 Intent

GRCLR will design, construct, operate and maintain a world-class light rail network that empowers prosperity for the Greater Parramatta Area and supports the realisation of the Future Transport 2056 Strategy.

GRCLR is committed to ensuring an environmentally sustainable future for Parramatta Light Rail, our customers and the Greater Parramatta Area.

3.6.2 Policy

To achieve the intent, GRCLR will:

- Lead effectively and live our accountabilities and responsibilities at all levels of the organisation, starting with the directors through to employees and subcontractors. This includes all upholding the principles of social sustainability and social accountability across our workforce, our activities and our supply chain
- Comply with all environmental requirements included in relevant legislation, the Conditions of Approval, and the Environmental Impact Statement
- Integrate sustainability across all GRCLR activities, including design, construction, procurement, commissioning, operations and maintenance
- Collaborate with and proactively engage with all stakeholders at all levels
- Create a culture of continuous improvement for environment and sustainability management
- Understand, comply with and embrace our environment and sustainability responsibilities
- Establish annual objectives for environmental management and regularly verify the compliance and effectiveness of the measures to ensure that objectives are met
- Promote an environmentally aware, sustainability-focused culture within GRCLR, stakeholders, customers and the Greater Parramatta community
- Commit to the prevention of pollution, protection of biodiversity, implementation of restorative actions, minimisation of resource use, and enhancement of climate change resilience through adaptation and mitigation across the delivery of works
- Plan effectively and provide and use the necessary resources to meet environmental objectives.

This policy will be communicated to and applies to all GRCLR employees and subcontractors and will be made publicly available on the GRCLR website.

3.7 Environmental Performance Criteria

As a means of assessing environmental performance during construction of the Project, environmental performance criteria have been established. The performance of the Project will be monitored against the performance criteria. Project performance monitoring will be documented in the Project construction compliance reports and at least on an annual basis as part of a management review.

The Project performance criteria are provided in **Table 3-2**. Performance criteria for specific aspects of the Project are incorporated into relevant environmental management sub-plans.

Table 3-2: Environmental Criteria and Targets

Criteria	Target
Environmental inspection and audit action close-out rate	>85% of actions closed out within agreed timeframes
Environmental incidents and non-compliances action close-out rate	>85% of actions closed out within agreed timeframes
Attendance and pro-active participation rate at TfNSW/ER/environmental management coordination/Environmental Reference Group meetings	>85% attendance and pro-active participation
ISCA rating	Achieve an ISCA score of 70 (as built)
Construction of the Project in accordance with Planning Approval.	Full compliance with Planning Approval
Compliance with all legal requirements	No regulatory infringements (PINs or prosecutions).
Engage with the affected and broader community, minimise complaints and community impacts	Disseminate regular Project updates and other information through the Project website and other tools identified in the Communications and Engagement Plan. Record and respond to complaints within the timeframe specified in the Community Communication Strategy.

3.8 Project Refinements

Refinements to the Project may result from a change in circumstances during construction, value engineering or outcomes from preceding work packages. Changes would be communicated to the D&C Environment Manager or environment team either through formal change processes or via informal communications.

Any proposed changes would be assessed for consistency against the approved Project. The GRCLR Environment and Sustainability Manager will undertake or direct the assessment of the proposed changes for potential impacts and compare them to the proposed impacts for the

approved Project. Where required a Consistency Assessment will be prepared and, in the first instance, provided to TfNSW for review and approval and the ER for information.

Changes that are not consistent with the Project Approval will require modification under Section 5.25 of the *EP&A Act* and determination by the Minister for Planning and Public Spaces. The ER will be informed, and a modification application prepared and be lodged by TfNSW to the Secretary for determination.

If required, the CEMP and sub-plans would be updated as required to incorporate any additional potential environmental impacts, mitigation and management measures that result from the proposed changes.

4 Implementation and Operation

4.1 Environmental Management System Overview

The Project will be managed in accordance with the GRCLR Integrated Management System (IMS) implemented for the SOM package and includes an Environmental Management System (EMS). The EMS will be adopted as the guiding environmental management framework for the Project. The EMS is compliant with AS/NZS ISO 9001 and AS/NZS ISO 14001:2015 and is integrated into the overall SOM IMS which includes assurance, quality and health and safety management systems.

The EMS will guide the development of the Project's governance documentation, including this CEMP and associated sub plans, procedures and management tools, to achieve the commitments established by the GRCLR Environment and Sustainability Policy, to ensure environmental performance and sustainability objectives and targets are achieved.

All works carried out on the site will be in accordance with:

- The CoAs, REMMMs and EPOs
- Client requirements as detailed in the contract
- GRCLR IMS.

4.2 Resources, Roles, Responsibilities and Authority

4.2.1 Roles and Responsibilities

The key environmental management roles and responsibilities for the construction phase of the Project are described in **Table 4-1**.

Organisational charts are located at Appendix A5.

Table 4-1: GRCLR Roles and Responsibilities

Title	Roles, responsibilities and authorities relevant to this plan
GRCLR Project Director	<ul style="list-style-type: none">• Provide environmental leadership across the entire SOM package of works and ensure all SOM obligations under the CoA, legislation and contract to appropriately implement this CEMP are fulfilled.
GRCLR Communications Manager	<ul style="list-style-type: none">• Ensure environmental complaints and enquiries regarding the establishment of ancillary facilities are recorded and responded to appropriately• Identify residential and/or commercial stakeholders who are adjacent to or adjoin the ancillary facilities and consult them prior to ancillary facilities establishment and on an ongoing basis• Lead the development of strategies and plans relating to community relations• Provide leadership in strategic planning and management of community relations considerations

Title	Roles, responsibilities and authorities relevant to this plan
	<ul style="list-style-type: none"> • Prepare community updates, social media posts, website updates, stakeholder emails, letterbox drops, advertisements • Produce community relations training material for project toolboxes and inductions • Provide community information to be communicated in regular toolbox meetings • Induct all personnel in community relations protocols and procedures • Maintain liaison with TfNSW Senior Communications Liaison Officer • Communicate with the construction team about receiving complaints and identify potential resolution options • Liaise with the D&C Environment Manager to ensure that adequate mitigation measures are in place • Consult with the ER to close out complaints and comply with the reporting, review and inspection requirements
GRCLR Environment and Sustainability Manager	<ul style="list-style-type: none"> • Provide environmental oversight, direction and leadership regarding the environmental management of the Project. • Ensure this CEMP satisfies legal and Project requirements and is implemented accordingly • Notify TfNSW, the Environmental Representative and agencies as required in response to environmental incidents • Act as the primary contact for TfNSW, Environmental Representative, Acoustic Advisor, Independent Arborist and Interface Contractors • Effectively oversee the development and implementation of the EMS • Review and oversee design and construction works, including testing and commissioning, to ensure compliance is adopted into operational phase for key aspects • Authority to take immediate action to shut down any activity and direct installation of pollution control measures • Provide specialist environment, planning and sustainability advice to the Project Director and other functional managers to facilitate the SOM works • Oversee the development, implementation, assessment and verification of sustainability measures for all works • Oversee the establishment of performance expectations, goals and standards for managing all potential adverse impacts • Oversee the environmental management and sustainability induction and training program

Title	Roles, responsibilities and authorities relevant to this plan
	<ul style="list-style-type: none"> • Oversee the preparation of environmental assessments on design changes and obtain any necessary planning approvals • Oversee environmental monitoring, inspections and audits • Oversee investigation and close out of any environmental complaints • Manage compliance tracking and reporting • Oversee the keeping of all environmental records • In consultation with the Project Director and Senior Construction Manager, oversee the investigation and reporting of environmental incidents • Attend all EPS meetings, inspections undertaken by the ER and monthly Environment Reference Group meetings • Interface and co-ordinate with INFRA and other PLR contractors to achieve environmental alignment and management of cumulative impacts (including, but not limited to: OOHW, heritage, tree impacts) • Meet all requirements and data collection required to achieve an ISCA score of 70 (as built) • Be the primary contact for the ER, IA and AA on behalf of GRCLR.
Design and Construct Environment Manager	<ul style="list-style-type: none"> • Is responsible for the on site environmental management and reports to the GRCLR Environment and Sustainability Manager • Ensure this CEMP is implemented, and that appropriate training is provided regarding the requirements of this Plan • Obtain all necessary environmental approvals prior to commencing ancillary facilities establishment • Ensure inspections, observations, monitoring and audits are performed so that compliance is maintained • Report, manage and close out all non-compliances • Review and update environmental risks and controls at regular intervals and key milestones • Act as the main point of site contact for the GRCLR Environment and Sustainability Manager • Ensure corrective and preventative actions are taken after incidents and lessons are shared with other projects or parent companies. • Assist in the development and delivery of environmental training and awareness • Conduct the environmental component of the site inductions.

Title	Roles, responsibilities and authorities relevant to this plan
	<ul style="list-style-type: none"> • Provide specialist environment, planning and sustainability advice to the construction and design managers to facilitate the delivery of the design and construction works • Manage the development, implementation, assessment and verification of sustainability measures for design and construction works • Ensure the performance expectations, goals and standards for managing all potential adverse impacts are effective and implemented • Undertake inspections, observations, monitoring and audits as required • meet with the construction team regularly to discuss upcoming construction activities, on-site environmental management, and any recent complaints or issues. Meeting minutes will be recorded and retained • Manage the development, implementation and updating of the ECMs.
Design and Construct Project Director	<ul style="list-style-type: none"> • Provide environmental leadership and ensure the SOM Design and construction works fulfils the obligations under the CoA, legislation and contract to appropriately implement this CEMP • Ensure adequate resources are provided to effectively implement this CEMP • Ensure the requirements of this CEMP is communicated to the supply chain • Authority to take immediate action to shut down any activity and direct installation of pollution control measures.
Senior Construction and Staging Manager	<ul style="list-style-type: none"> • Manage the delivery of the construction process including establishment of ancillary facilities • Ensure work is planned and executed to maintain compliance with environmental requirements. • Plan construction works in a manner that avoids or minimises impact to environment • Accountable for environmental controls • Responsible for environmental compliance and performance • Understand their environmental responsibilities as detailed in the management plans • Stop work immediately if an unacceptable impact on the environment is likely to occur • Actively ensure that subcontractors and suppliers are complying with environmental requirements

Title	Roles, responsibilities and authorities relevant to this plan
	<ul style="list-style-type: none"> • Liaise and co-operate with TfNSW and other government authorities as required • Be contactable 24hrs to shut down construction work in the event of an emergency • Work with the ER and comply with the reporting, review and inspection requirements
Civil Construction Team	<ul style="list-style-type: none"> • Ensure appropriate mitigation and management measures are implemented and maintained on site • Implement corrective or preventative actions as required to fulfil the requirements of this Plan. • Ensure appropriate mitigation and management measures are implemented and maintained on site • Ensure regular inspections and monitoring requirements are undertaken to check effectiveness of environmental controls • Report environmental incidents and complaints immediately. • Attend Project inductions and environmental awareness training relevant to the ancillary facility • Understand and comply with environmental responsibilities • Be aware of surrounding sensitive environmental and social constraints and act in a manner that minimises impacts to those sensitive areas • Notify their supervisor immediately of any environmental incidents, near misses and hazards.
TfNSW Representative	<ul style="list-style-type: none"> • Receive a copy of this CEMP • Review documentation provided by GRCLR, where required • Act as point of contact between TfNSW and GRCLR • Site inspections on behalf of TfNSW • Attendance at GRCLR project-management reviews • Represent the Project when engaging with DPIE and EPA • Review project-environmental performance • Manage all DPIE reporting requirements.

4.3 Responsibility and authority

A number of additional roles are required by the Project CoA and the GRCLR commitment to continuous improvement. The GRCLR will work closely with these people to identify and minimise environmental risk and associated impacts. These roles are detailed below.

TfNSW is the “Proponent” under the CoA with ultimate responsibility to DPIE for compliance with the Planning Approval.

4.3.1 Environmental Representative

CoA A19 to 22 requires a suitably qualified and experienced Environmental Representative (ER) to be engaged for the Project. The nominated and approved ER is independent of the design and construction personnel.

CoA A23 requires that for the duration of the works until after the commencement of operation, or as agreed with the Secretary, the approved ER must:

- a) receive and respond to communication from the Secretary in relation to the environmental performance of the CSSI;
- b) consider and inform the Secretary on matters specified in the terms of this approval;
- c) consider and recommend to the Proponent any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and the community;
- d) review documents identified in Table 2 and any other documents that are identified by the Secretary, for consistency, in the opinion of the ER, with requirements in or under this approval and if so:
- e) make a written statement to this effect before submission of such documents to the Secretary (if those documents are required to be approved by the Secretary); or NSW Government 15 Department of Planning and Environment Conditions of Approval for Parramatta Light Rail (Stage 1) – CSSI 8285 MOD 1 –determined 21 December 2018 CSSI 8285 MOD 2 – determined 25 January 2019
- f) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Secretary for information or are not required to be submitted to the Secretary);
- g) regularly monitor the implementation of the documents listed in Table 2 to ensure implementation is being carried out in accordance with the document and the terms of this approval;
- h) as may be requested by the Secretary, help plan, attend or undertake audits of the CSSI commissioned by the Department including scoping audits, programming audits, briefings and site visits, but not independent environmental audits required under Condition A41 of this approval;
- i) as may be requested by the Secretary, assist the Department in the resolution of community complaints;
- j) assess and, if acceptable, approve the impacts of minor ancillary facilities comprising lunch sheds, office sheds and portable toilet facilities or other ancillary facilities determined by the ER to have a minor environmental impact; and
- k) prepare and submit to the Secretary and other relevant regulatory agencies, for information, an Environmental Representative Monthly Report providing the information set out in the Environmental Representative Protocol under the heading “Environmental Representative Monthly Reports.” The Environmental Representative Monthly Report must be submitted within seven days following the end of each month for the duration of the ER’s engagement for the CSSI.

CoA A24 requires that the Proponent must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in Condition A23 (including preparation of the ER monthly report), as well as:

- a) the complaints register (to be provided on a daily basis); and
- b) a copy of any assessment carried out by the Proponent of whether proposed work is consistent with the approval (which must be provided to the ER before the commencement of the subject work).

In addition to the conditions set out in the Planning Approval, GRCLR personnel will work with the ER and comply with the reporting, review and inspection requirements. The Environment Manager will be the primary contact for the ER on behalf of the project.

The CEMP will be endorsed by the ER and then submitted to the Secretary for approval no later than one month before the commencement of construction.

The CEMP will be consulted and involved in the preparation and implementation of the Out of Hours Works Protocol in accordance with CoA E28.

4.3.2 Acoustic Advisor

CoA A26 requires a suitably qualified and experienced Acoustics Advisor (AA) to be engaged for the duration of construction and for no less than six months following completion of construction in accordance with the Planning Approval. The nominated AA is independent of the design and construction personnel.

The CoA A29 requires the AA to fulfil the following requirements:

- a) Receive and respond to communication from the Secretary about the performance of the CSSI in relation to noise and vibration;
- b) Consider and inform the Secretary on matters specified in the terms of this approval relating to noise and vibration;
- c) Consider and recommend, to the Proponent, improvements that may be made to work practices to avoid or minimise adverse noise and vibration impacts;
- d) Consider consultation outcomes with affected receivers to determine the adequacy of noise mitigation and management measures including work hours and respite periods;
- e) Review all noise and vibration documents required to be prepared under the terms of this approval and, should they be consistent with the terms of this approval, endorse them before submission to the Secretary (if required to be submitted to the Secretary) or before implementation (if not required to be submitted to the Secretary);
- f) Regularly monitor the implementation of all noise and vibration documents required to be prepared under the terms of this approval to ensure implementation is in accordance with what is stated in the document and the terms of this approval;
- g) In conjunction with the ER, the AA must:
 - i. as may be requested by the Secretary, help plan, attend or undertake audits of noise and vibration management of the CSSI including briefings, and site visits;
 - ii. if conflict arises between the Proponent and the community in relation to the noise and vibration performance during construction of the CSSI, follow the procedure in the Community Communication Strategy approved under Condition B3 of this approval to attempt to resolve the conflict, and if it cannot be resolved, notify the Secretary;
 - iii. consider relevant minor amendments made to the CEMP, relevant sub-plans and noise and vibration monitoring programs that require updating or are of an administrative nature, and are consistent with the terms of this approval and the management plans and monitoring programs approved by the Secretary and, if satisfied such amendment is necessary, endorse the amendment. This does not include any modifications to the terms of this approval;
 - iv. assess the noise impacts of minor construction ancillary facilities; and
- h) prepare and submit to the Secretary and other relevant regulatory agencies, for information, a monthly Noise and Vibration Report detailing the AAs actions and decisions on matters for

which the AA was responsible in the preceding month (or another timeframe agreed with the Secretary). The Noise and Vibration Report must be submitted within seven days following the end of each month for the duration of construction of the CSSI, or as otherwise agreed with the Secretary.

Additionally, the AA is to:

Be consulted and involved in the preparation and implementation of the Out of Hours Works Protocol in accordance with CoA E28, and Report to the Secretary on outcomes of the community consultation, the identified works and respite periods and the scheduling of the likely out-of-hour works in accordance with CoA E37.

4.3.3 Independent Arborist

CoA E102 requires an Independent Arborist (IA). The nominated IA is independent of the design and construction personnel.

The CoA E103 requires the IA to fulfil the following requirements:

- a) be the principal point of advice in relation to the assessment and management of CSSI impacts on trees;
- b) prepare a Tree Register of all trees within the CSSI footprint (either for the entire CSSI or separate areas where tree removal and/or pruning is proposed) before the removal of any trees;
- c) identify those trees within the footprint that must be removed for construction to proceed or for CSSI operations; and
- d) identify those trees where their fate is uncertain and may be retained or may be pruned (either for construction or for ongoing maintenance during operation).

The Tree Register must satisfy the requirements of CoA E104 and include recommendations made by the IA. The Tree Register and evidence of Considerations by the Project must be submitted to the Secretary prior to removal /damage or pruning of a tree.

4.4 Environmental Documentation

4.4.1 Construction Environmental Management Plan

This CEMP provides the system to manage and control the environmental aspects of the Project during construction. It identifies all requirements applicable to activities described in Section 2. It also provides the overall framework for the system and procedures to ensure environmental impacts are minimised and legislative and other requirements are fulfilled.

The strategies defined in this CEMP have been developed with consideration of the CoAs, REMMMs and EPOs. This CEMP establishes the system for implementation, monitoring and continuous improvement to minimise impacts from the Project on the environment.

This CEMP will be endorsed by the ER and provided to the Secretary for approval at least one month prior to the commencement of construction. In accordance with CoA C8 construction will not commence until the CEMP and the sub plans specified in CoA C3 are approved by the Secretary or provided to the Secretary for information (as required by CoA C3).

4.4.2 Environmental Management Sub Plans

Subject-specific environmental management sub-plans support the CEMP. These documents are prepared to identify requirements and processes applicable to specific impacts or aspects of the Project. They address the relevant requirements of the CoAs, REMMMs and EPOs.

A list of construction sub-plans for this Project, their approval and consultation requirements are provided in Table 4-2.

The establishment of construction ancillary facilities will be done in accordance with CoA C18 and the Site Establishment Management Sub Plan.

Table 4-2: Environmental Management Plans

Document name	Approval pathway/ requirement
Traffic, Transport and Access Management Plan	CoA C3 (a)
Flora and Fauna Management Plan	CoA C3 (e)
Noise and Vibration Management Plan	CoA C3 (b)
Soil and Water Management Plan	REMMM GEN-1 and Hy-6
Heritage Management Plan	CoA C3 (d)
Aboriginal Heritage Management Plan	CoA C3 (d)
Air Quality Management Plan	REMMM GEN-1 and AQ-1
Construction Waste and Resource Management Plan	REMMM GEN-1 and WM-2
Contaminated Land Management Plan	REMMM CM-3
Site Establishment Management	CoA C18
Flood Management Plan	CoA C3 (c)

4.4.3 Sustainability Management Plan

TfNSW has prepared a Sustainability Strategy to comply with CoA E136 and EPO-SU-1 for the PLR including the Project. The management of the Sustainability Strategy's requirements associated with the construction of the Project will be addressed in the Delivery Sustainability Management Plan (Ref PLR1SOM-GLR-ALL-PM-PLN-000015). Implementation of the Sustainability Management Plan will be managed by the GRCLR Environment and Sustainability Manager. The plan will demonstrate how the relevant commitments in the Sustainability Strategy (CoA 136 and EPO-SU-1) will be implemented on this Project.

4.4.4 Environmental Control Maps

Environmental Control Maps (ECMs) are live documents prepared to assist in the planning and delivery of the Project. The Project traverses a range of environmental and socially sensitive areas/sites. To assist construction planning and management, these site constraints are consolidated on series of map-based sheets that extend the length of the Project.

In accordance with the requirements of the *TfNSW Guide to Environmental Control Map (3TP-SD-015/8.0)*, the ECMs will be prepared prior to the commencement of relevant construction activities and will incorporate relevant sensitive areas, mitigation measures and controls, including those from relevant management sub plans. ECMs are specifically designed to communicate requirements, actions, processes and controls to construction personnel using plans, diagrams and simply written instructions.

The ECMs are live documents encompassing the whole Project. They will be further developed as construction progresses and input is provided from the Project management team, the ER and TfNSW.

All construction personnel and subcontractors undertaking a task governed by an ECM must participate in training on relevant ECMs and acknowledge that they have read and understood their obligations by signing an attendance record prior to commencing work. This process is the responsibility of the D&C Environment Manager or delegate.

The implementation of the ECMs, including regular monitoring, inspections and auditing of compliance with the ECMs will be undertaken by project management and environmental personnel to ensure that all controls are being followed and that any non-compliances are recorded, and corrective actions implemented.

The ECMs will be prepared and maintained by the D&C Environment Manager or delegate with input from specialists as required. ECMs are live documents and will be document controlled separately to the CEMP. The current version will be available to all construction personnel and subcontractors undertaking a task governed by an ECM.

ECMs will be provided to the ER for review at least one week prior to the commencement of any activities in the area covered by the document. All comments received from the ER will be addressed and endorsement obtained prior to commencement of works.

4.5 Sub-contractor Management

All sub-contractors will work on the Project in accordance with the CEMP and appendices. All sub-contractors will be inducted and provided with additional environmental training where required based on the environmental risk of their activities.

GRCLR will conduct appropriate monitoring of each sub-contractor's environmental protection measures ensuring these measures are effectively implemented and maintained.

Based on environmental risk, sub-contractors will also be required to develop an activity specific environmental work method statement (EWMS), which will include a risk assessment and mitigation measures associated with their activities before commencing works to confirm that their process and procedures are appropriate.

All Sub-contractors engaged by GRCLR for works shall undertake works in accordance with:

- Relevant Environmental Legislation, Codes of Practice and Australian Standards

- GRCLR's quality, safety and environmental management system policies and procedures
- Submitted EWMS.

4.5.1 Sub-contractor Assessment

All subcontractors are to be assessed in line with their ability to perform the task. Consideration will be given to:

- Past performance, demonstrated capability and quality of work
- The nature and scope and scale of the subcontractor's activities
- Safe work practices and use of EWMS
- The sub-contractor's capacity to manage its own environmental performance effectively
- The environmental sensitivity of the area(s) in which the sub-contractors will be working
- The potential environmental impacts of the sub-contractor's activities
- The qualifications and experience of staff
- The sub-contractor's previous environmental performance
- Only sub-contractors with adequate qualifications and environmental systems will be engaged to provide services.

4.5.2 Managing sub-contractor service delivery

Sub-contractors are to submit environmental management documentation e.g. EWMS before commencing work. These documents will be reviewed by the Environmental Manager and, where required, TfNSW and ER to confirm they are appropriate and meet the requirements of this CEMP and associated sub plans, the Project deed and CoAs.

Where Sub-contractor provided documents are deemed not suitable following review by GRCLR, the sub-contractor will be requested to review and re-submit documentation. Works will not commence for the specific work activity until documents have undergone review and acceptance.

The D&C Environment Manager or delegate will review/discuss the relevant ECM with Sub-contractors at their commencement at a new work area.

4.5.3 Monitoring sub-contractor

Sub-contractors are expected to provide an appropriate level of supervision of their workers on site and implement appropriate monitoring practices such as: work area inspections, task observations and EWMS implementation.

GRCLR will monitor Sub-contractor's environmental compliance through mechanisms such as work area inspections, observations, audits and reviews.

Sub-contractors environmental compliance will also be monitored by other parties in accordance with the CoA.

4.5.4 Review of sub-contractor performance

A meeting will be held with the Site Supervisor and Senior Construction and Staging Manager at the completion of works to review the Subcontractor's performance and assess their ability to efficiently perform on the contract. Additional reviews may be maybe required following incidents, non-compliances or continuous poor performance.

Records of review are to be documented and the information is then to be sent to the Senior Construction and Staging Manager for collation and further reference.

5 Competence, Training and Awareness

To ensure that this CEMP is effectively implemented, each level of management is responsible for ensuring that all personnel reporting to them are aware of the requirements of this CEMP. The D&C Environment and Sustainability Manager will coordinate the environmental training in conjunction with other training and development activities (e.g. safety).

5.1 Environmental Induction

All personnel (including subcontractors) are required to attend a compulsory site induction that includes an environmental component prior to commencement on-site. This is done to ensure all personnel involved in the Project are aware of the requirements of the CEMP and to ensure the implementation of the relevant mitigation measures.

Short-term visitors to site undertaking inspections / entering the site (such as regulators) will be required to undertake a visitors' induction prior to accessing the site and must be accompanied by inducted personnel at all times, in line with OH&S law.

Temporary visitors to site for purposes such as deliveries, will be required to stay in designated delivery areas, or otherwise be accompanied by inducted personnel at all times.

The D&C Environment Manager (or delegate) will conduct the environmental component of the site inductions.

The environmental component of the induction must cover all elements of the CEMP and would include as a minimum:

- GRCLR's environmental policy
- Relevant details of the CEMP and sub management plans including purpose and objectives
- Requirements of due diligence and duty of care
- Conditions of environmental licences, permits and approvals
- Environmental and compliance obligations associated with the Project approval, including the CoAs, REMMMs and EPOs
- Potential environmental emergencies/incidents on site and the required response
- Reporting and notification requirements for pollution and other environmental incidents
- Mitigation measures for the control of environmental issues
- Interface protocols with other PLR contractors (e.g. Infrastructure and Remediation contractors)
- High risk activities and associated environmental safeguards
- Working in or near environmentally sensitive areas
- The environmental control map(s), their purpose, scope and use
- Role specific environmental management requirements and responsibilities
- Sustainability requirements, including reducing greenhouse gas emissions by implementing energy efficient practises
- Waste management and segregation.

A record of all project inductions will be maintained and kept on-site, and in the GRCLR IMS. The D&C Environment Manager may authorise amendments to the induction at any time. Possible reasons for changes to the induction will relate to such things as:

- Project modifications;
- Construction progression (i.e. as risk profile of works change);
- Legislative changes;
- Amendments to this CEMP or related documentation.

An induction register will be kept at the project site office, maintained by the D&C Environment Manager.

5.2 Toolbox Talks, Training and Awareness

Toolbox talks will be one method of raising awareness and educating personnel on issues related to all aspects of construction including environmental issues. The toolbox talks are used to ensure environmental awareness continues throughout construction.

Toolbox talks will include details of ECMs and be tailored to specific environmental issues relevant to upcoming works.

Key environmental issues relevant to construction of the SaMF include (but are not limited to):

- Hours of work, including management strategies to be implemented for out of hours works
- The scope and requirements of the specific site environment plans and ECMs
- Erosion and sediment control
- Wet weather shut down procedures and responsibilities
- Emergency and spill response
- Noise and vibration goals and specific mitigation measures
- Traffic/access, location of entry/exit points, traffic routes, parking, haulage routes
- Soil and water issues and controls and dewatering and discharge requirements
- Air quality and dust issues and management
- Contamination issues and management
- Sensitive receivers such as the local community and appropriate mitigation measures
- Sustainability measures
- Waste management and recycling
- Recent environmental incidents and lessons learnt.

Toolbox talks will also be used as a forum for sharing any lessons learned. These lessons may be recorded and distributed to relevant stakeholders.

Toolbox talk attendance will be mandatory and attendees of toolbox talks will be required to sign an attendance form. Attendance records will be retained within the GRCLR IMS.

Targeted environmental awareness training will be provided to individuals or groups of workers with a specific authority or responsibility for environmental management or those undertaking an activity with a high risk of environmental impact. Topics covered may include those detailed above, or others deemed necessary in the lead up to or during construction.

A training schedule identifying relevant toolbox talks and environmental awareness training would be developed and updated throughout construction of the Project as training needs are identified.

5.3 Daily Pre-Start Meetings

The pre-start meeting is a tool for informing the workforce of the day's activities, safe work practices, environmental protection practices, work area restrictions, activities that may affect the works, coordination issues with other trades, hazards and other information that may be relevant to the day's work.

The site supervisors will conduct a daily pre-start meeting with the site workforce before the commencement of work each day, at the start of each new shift, or when there are changes to work activities or the risks present onsite during a shift. Daily pre-start meetings are generally succinct in nature and take approximately 10-15 minutes.

The environmental component of pre-starts will be developed by the D&C Environment and Sustainability Manager and will include any environmental issues that could potentially be impacted by, or impact on, the day's construction activities. All attendees at each works site will be required to sign on to the pre-start and acknowledge their understanding of the issues explained.

Pre-start topics, dates delivered, and a register of attendees will be recorded and kept at the Project site office and uploaded into the GRCLR IMS.

6 Communication

6.1 External and Government Authority Liaison

The GRCLR Environment and Sustainability Manager or delegate has the responsibility to report on the ongoing environmental performance of the Project to TfNSW and the ER.

The GRCLR Environment and Sustainability Manager will report regularly to TfNSW on progress and any key environmental matters through a concise monthly Environmental Management Report detailing items within the preceding month. This monthly Environmental Management Report will include but not be limited to:

- Record of any out of hours works undertaken
- Details and investigation outcomes of any environmental incidents or non-compliances
- Details of any complaints and the associated response
- Visits to site by EPA, council or other regulatory authorities
- Any specific issues raised by the ER.

If the Project is visited by EPA or any other regulator or government agency, TfNSW will be notified as soon as practicable, and a report will be prepared on each occasion. The report will be provided to TfNSW within one working day of the visit.

To ensure the EPA can liaise with the Project team directly in the case of an emergency, the following contacts will be made available to be contacted by the EPA on a 24-hour basis; they will both have the authority to take immediate action to shut down any activity or to effect any pollution control measure, as directed by an authorised officer of the EPA:

- Project Director
- GRCLR Environment and Sustainability Manager (or delegate).

Relevant government agencies would be consulted throughout construction, as required. This will generally be undertaken by TfNSW with the support of the GRCLR Environment and Sustainability Manager.

TfNSW will manage all communications with DPIE and keep them up to date with project progress and respond to any queries.

If GRCLR is required to consult, notify or submit documentation to a government agency (such as EPA, DPI or COP) or a stakeholder (such as a landowner or Aboriginal group representative), then GRCLR must provide the required documentation, notification or conduct consultation directly with the agency or stakeholder and provide a copy or summary of the consultation to TfNSW. If a meeting is proposed with a government agency or stakeholder, GRCLR must give reasonable notice, preferably five days, to TfNSW to allow their attendance.

6.2 Internal Communication

Clear lines of communication throughout all levels and functions (e.g. management, staff and sub-contracted service providers), are key to minimising environmental impacts and achieving continual improvements in environmental performance.

The D&C Environment Manager or delegate will meet with the construction team regularly to discuss upcoming construction activities, on-site environmental management, and any recent complaints or issues. Meeting minutes will be recorded and retained.

The D&C Environment Manager and GRCLR Environment and Sustainability Managers will meet on a regular basis to discuss the upcoming construction works and the associated environmental, planning and sustainability, risks and potential issues. Any potential interface contractor or stakeholder communications would also be discussed.

Meetings may also be scheduled with the ER and relevant TfNSW environmental staff. The purpose of these meetings would be to communicate ongoing environmental performance and to identify any issues to be addressed.

In addition, D&C Environment Manager and GRCLR Environment and Sustainability Managers will regularly participate in toolbox talks. This forum will provide an opportunity for the environment team members to communicate on environmental performance, to advise on any upcoming sensitive environmental matters for future work areas and to receive feedback from on-site personnel.

Further internal communications regarding environmental issues and aspects will be through awareness training as described in Section 5.

6.3 Stakeholder and Community Consultation

The Community and Engagement Plan (PLR1SOM-GLR-ALL-PM-PLN-000007) sets out how GRCLR will comply with the communications and engagement requirements of the CoAs, the SOM contract and the TfNSW Project Community Communication Strategy (CCS). It outlines processes for providing accurate information to the TfNSW representative regarding current and upcoming contractor activities, and all associated community impacts and potential announcements. It addresses the following:

- Communication and engagement approach, objectives and framework
- Key milestones
- Roles and responsibilities of project team members
- Key messages
- Identification of communications tools, timelines and actions to be implemented
- Proposed community liaison and marketing activities
- Identification of stakeholders that will be affected by the works and targeted consultation
- Issues analysis and impacts to stakeholders, and proposed mitigation measures
- Management of complaints and enquiries
- Crisis and incident management
- Monitoring and evaluation.

6.4 Complaints Management

In accordance with *AS/NZS 10002-2014 Guidelines for Complaint Management in Organisations*, a complaint management system ensures guidelines are in place for the effective and consistent handling of complaints.

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 in the Project and it can help prevent further escalation of the complaint. GRCLR's approach to receiving a complaint will be:

- Promptly acknowledge receipt of complaint

- Address each complaint with integrity and in an equitable, objective and unbiased manner
- Implement best practices in complaint handling
- Adopt flexible approaches to problem solving to enhance accessibility for people making complaints and/or their representatives
- Protect the identity of people making complaints where this is practical and appropriate.
- Personal information that identifies individuals will only be disclosed or used as permitted under the relevant privacy laws, secrecy provisions and any relevant confidentiality obligations.

GRCLR will adhere to the complaints management system which has been established for the Project as outlined in the CCS and in accordance with TfNSW's Customer Complaints and Feedback Policy. TfNSW has established a dedicated 24-hour telephone number (1800 139 389), postal address (Level 10, 130 George Street, Parramatta NSW 2150), email address (parramattalightrail@transport.nsw.gov.au) which is staffed by a call centre provider appointed by TfNSW. The Project telephone number, and email address will be visible on hoarding at each GRCLR construction site. Project contact details will be included on all communications collateral.

GRCLR will answer all phone calls transferred by the call centre from the community information line in person and/or investigate the complaint immediately, with a phone call to be made to the complainant within two hours. An initial response will be provided during this phone call, unless the complainant agrees otherwise.

For email complaints received during construction hours, an initial written response will be provided within four hours of email receipt, and a written or verbal response within two hours if a contact telephone number is provided. For email complaints received outside construction hours an automated response will be provided immediately confirming receipt explaining that a full response will follow, and then within the first four hours of the next business day from receipt provide a written response.

For complaints received by mail within construction hours, a written response will be provided within 24 hours of receipt, or a verbal response within two hours if a contact telephone number is provided.

Written responses to complainants will be forwarded to TfNSW for their approval prior to sending to the complainant and a copy provided to the TfNSW representative.

Received complaints pertaining to the SOM contract for action, response and resolution will be forwarded to the GRCLR Communications Manager. If a complaint has been received in person by another contractor, community member or stakeholder TfNSW will advise GRCLR. If a complaint has been referred to GRCLR and is not related to GRCLR activities TfNSW will be advised immediately.

Other processes that will be followed include:

- GRCLR will advise the TfNSW PLR Senior Community Liaison Officer of a complaint on the day of the complaint or the following working day if the complaint has been received after 5pm
- GRCLR will forward information on any complaints received, including response times and details of any actions undertaken or proposed or investigations occurring, to the relevant TfNSW representative in writing within one business day
- GRCLR will provide feedback to requests for information from a TfNSW representative, TfNSW communications team or the Community Complaints Commissioner in relation to responses to complaints within two hours of the request;
- GRCLR will escalate complaints in accordance with the Escalation and Dispute Resolution Process as outlined in the CCS;

- GRCLR will resolve all complaints within seven business days, and if the complaint cannot be resolved the complainant will be kept informed and updated of the progress until the complaint is resolved;
- GRCLR will record all complaints within 24 hours of receipt of the complaint which will include:
 - Date and time of complaint
 - Method of complaint (e.g. phone, email, meeting)
 - Name and contact details of complainant
 - Summary of complaint
 - Nature of complaint
 - Number of people affected by a complaint
 - Details of actions undertaken or proposed and investigations
 - Response to complain
 - Details of whether mediation was required or used;
 - Response times
 - Number of complaints.
- GRCLR will provide the complaint closeout actions and date of implementation in writing to the relevant TfNSW representative
- GRCLR will add the complainant to the list of stakeholders to be called within seven days ahead of proposed work if the complainant requests follow up information and wishes to receive calls
- GRCLR will provide a monthly report to TfNSW outlining the complaints received for that month, including lessons learnt from the complaint that can be or have been applied
- GRCLR will take all actions and implement all practicable measures to prevent the reoccurrence of stakeholder and community complaints
- GRCLR will comply with all directions from the TfNSW in relation to the resolution of any escalated complaints.

In accordance with CoA B9, the GRCLR will maintain a Complaints Register, owned by TfNSW, throughout construction and for 12 months following the completion of construction, that records information on all complaints received about the Project.

The Complaints Register will record the:

- (a) number of complaints received;
- (b) number of people affected in relation to a complaint;
- (c) means by which the complaint was addressed and whether resolution was reached, with or without mediation.

In accordance with CoA A24 (a) the complaints register will be provided to TfNSW by GRCLR. TfNSW will provide the complaints register to the ER on each working day. If a complaint is received outside working hours, the register will be provided to the ER on the next working day.

The complaints management process is provided in **Figure 6-1**.

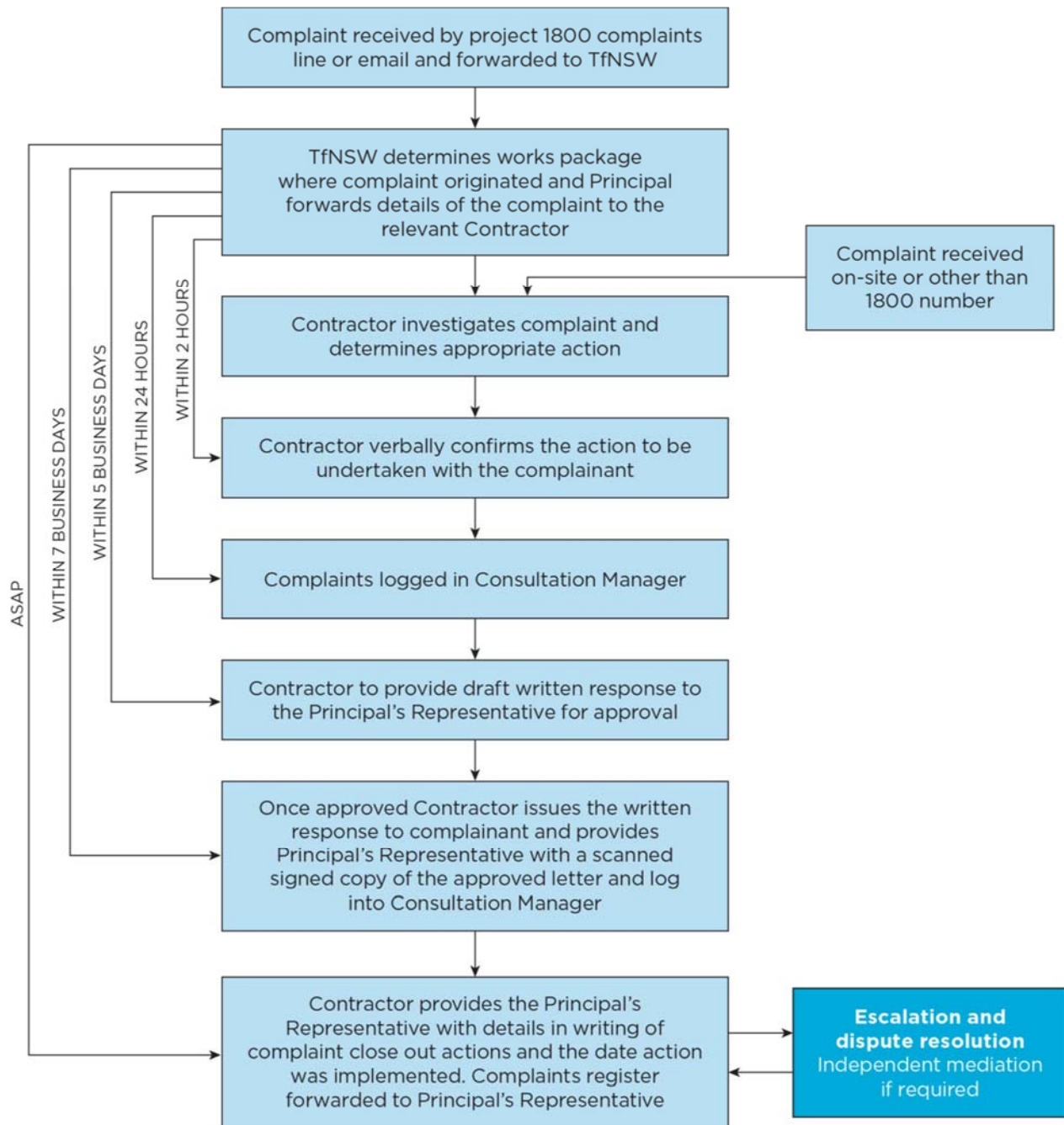


Figure 6-1: Complaints management process

6.5 Working hours

6.5.1 Approved working hours

As per CoA E21, approved working hours are:

- 7:00am to 6:00pm Mondays to Fridays, inclusive
- 8:00am to 12:00pm Saturdays
- At no time on Sundays or public holidays.

Extended working hours are permitted under CoA E22, with the exception of 'Eat Street' during the

following hours:

- 6:00pm to 7:00pm Mondays to Fridays, inclusive
- 12:00pm to 6:00pm Saturdays

Notwithstanding Condition E21, works may be undertaken in the Camellia and Rosehill precincts (east of James Ruse Drive) and the Carlingford precinct (from Parramatta River to Victoria Road) 24 hours a day, seven days a week provided that sensitive receivers are not affected by noise levels of greater than 5 dBA above the rating background level at any residence in accordance with the Interim Construction Noise Guideline (DECC, 2009), between 10.00pm and 7.00am.

6.5.2 Working outside approved construction hours

The Noise and Vibration Management Plan (NVMSP) details the protocols and assessment requirements for working outside the approved construction hours specified in CoA E21 and E22.

The Project will implement the DPIE approved Parramatta Light Rail – Stage 1 Out-of-Hours Work Protocol (Rev 8.3 4 November 2019).

7 Environmental Incident and Emergency Response

The purpose of this procedure is to clearly outline the process to be followed in the event of an environmental incident or emergency, including the following (as required by GEN-3):

- Classification of the incident
- Notification and reporting requirements
- Incident investigation
- Preparedness and response
- Continuous improvement.

7.1 Incident Classification

TfNSW Environmental Incident Classification and Reporting 9TP-PR-105 defines an incident as ‘an occurrence or set of circumstances, as a consequence of which pollution (air, water, noise and land) or an adverse environmental impact has occurred, is occurring, or is likely to occur. Table 7.1 provides incident definitions and Table 7.2 displays the five levels of environmental incident, as defined by the GRCLR Incident Management Plan.

Table 7-1 – Environmental Incident Definitions

Type	Definition	Source
Environmental Incident	An occurrence or set of circumstances that causes, or threatens to cause, material harm.	Planning Approval
Material harm	Is harm that: a) Involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or b) Results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (such loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment)	Planning Approval
Notifiable event	Any environmental incident or non-compliance that triggers a specific statutory requirement to notify a regulatory authority.	<i>TfNSW Environmental Incident Classification and Reporting 9TP-PR-105</i>
Non-compliance	An occurrence, set of circumstances or development that is a breach of the planning approval but is not an environmental incident.	<i>TfNSW Environmental Incident Classification and Reporting 9TP-PR-105</i>

Table 7-2: Incident Classification

GRCLR Incident Level	Incident Level Description	Example Events
Level 1	<ul style="list-style-type: none"> Managed at the site level but may need external resourcing over and above that which is usually used by local work teams to manage incidents. 	<ul style="list-style-type: none"> Minor spills.
Level 2	<ul style="list-style-type: none"> Requires off-site co-ordination with moderate levels of external resourcing and support; and/or Causes or has the potential to cause a moderate impact on the environment. 	<ul style="list-style-type: none"> Minor fire
Level 3	<ul style="list-style-type: none"> Major incident/event that impacts the community beyond the scope of a Level 2 incident. 	<ul style="list-style-type: none"> Emergency evacuation of all or part of the work site; or LRV serious collision, fire or derailment.
Level 4	<ul style="list-style-type: none"> Major incident which requires the activation of the IMT for operational and strategic direction. 	<ul style="list-style-type: none"> Any emergency that significantly impacts on Delivery Activities; Any incident that requires the deployment of EMLOs to external agencies; and Incident involves multiple emergency agencies i.e. Police Forward Command Post.
Level 5	<ul style="list-style-type: none"> Requires or has incurred Combat Agency support/ input. State-wide emergency protocols have been triggered for this level of incident. 	<ul style="list-style-type: none"> Major disaster.

7.2 Notification and Reporting of Incidents

TfNSW and the ER will be notified verbally immediately in the event of an environmental incident, and in writing within 4 hours, in accordance with the *TfNSW Environmental Incident Classification and Reporting Procedure (9TP-PR-105)*. Additional details of the incident would be provided within 48hrs.

Initial notifications will include the following information as a minimum:

- Time, date, nature, duration and location of the incident
- Location of the place where incident has occurred
- Nature, the estimated quantity or volume and the concentration of any pollutants involved
- Circumstances in which the incident occurred and cause of the incident, if known
- Action taken or proposed to be taken to deal with the incident.

A report of the incident, including the results of the incident investigation will be provided to TfNSW within a week of the incident in accordance with the *TfNSW Guide to Environmental Incident and Non-compliance Reporting using the INX System 9TP-SD-005 and CoA A45*, unless otherwise agreed. The report would include the time and date of the incident, details of the incident and would identify any consequent non-compliance with the environmental requirements of the Project.

TfNSW hold the primary responsibility for notifying and reporting incidents to DPIE (CoA A44) in writing (compliance@planning.nsw.gov.au). The notification must identify the Project (including the CSSI application number) and set out the location and nature of the environmental incident. If an incident requires EPA notification under the POEO Act, TfNSW will also notify DPIE within 24 hours after the notification was given to the EPA. GRCLR will assist and cooperate with TfNSW to fulfil these obligations. TfNSW and GRCLR will implement all written requirements of the Secretary, which may be given at any point in time, to address the cause or impact of an incident within any timeframe specified by the Secretary or relevant public authority in accordance with CoA A46.

Notification and reporting of an incident as defined in Table 7.1, to the relevant authorities, ER and other stakeholders will also be undertaken as required. This will generally be undertaken by TfNSW with the support of the GRCLR Environment and Sustainability Manager.

Subcontractors on the Project will be required to notify GRCLR of all environmental incidents, with verbal notification to be provided immediately. Failure to complete the required notifications will be considered a system non-compliance.

7.3 Incident Investigation

Incident investigation will consider the following:

- Sequence of events that led to the incident.
- The key findings of the investigation (i.e. what are the main causes of the incident).
- The management methods to be changed and/or implemented to avoid the incident reoccurring
- What can we learn from this investigation into the incident?

Section 2.8 of the *TfNSW Standard Requirements* specifies the following incident investigation protocols:

- GRCLR will undertake a preliminary investigation of all Class 3 incidents within five business days of the incident, unless otherwise agreed by TfNSW. Major investigations must be completed within 20 business days of the incident. Terms of reference for major investigations will be issued by TfNSW. If TfNSW requires the appointment of an external independent investigator, GRCLR will bear the cost of that appointment
- TfNSW may participate in any investigation being undertaken by GRCLR or initiate its own investigations. If TfNSW instigates its own investigation GRCLR will provide TfNSW with all assistance reasonably required for the purposes of the investigation, this includes the waiver of legal professional privilege over any investigation report prepared by, or on behalf of, GRCLR. The parties may agree that any investigation report that is subject to legal professional privilege may, between GRCLR and TfNSW, be subject to a common interest privilege
- In the event of an incident or issue, GRCLR will not contact or provide information to any person (other than that which is required to directly manage the Incident or to comply with law), including any stakeholder, the media or the public, without the prior approval of the

TfNSW. GRCLR will make available senior personnel to respond to the community, the media and other stakeholders when required by TfNSW.

7.4 Preparedness and Response

In accordance with CoA E26, on becoming aware of the need for emergency construction works, the GRCLR will notify the ER of the need for those activities or works. The GRCLR will also use best endeavours to notify all affected sensitive receivers of the likely impact and duration of those works.

The immediate response to all incidents is to make the area safe and then undertake any reasonable actions to prevent further environmental harm without posing additional risk to staff, workforce or the public. In the event of an environmental incident or emergency, responses described in Table 7-3 will be implemented. The D&C Environmental Manager will ensure the construction site is suitably prepared to respond to an emergency/incident, as set out in **Table 7-3**.

The key to effective prevention of environmental incidents is monitoring, inspection and training. The approach set out in sections 8.1 (monitoring), 8.2 (inspection), 8.3 (auditing) and 5 (training) would minimise the potential of environmental incident and ensure the site team act appropriately to minimise the impact if an incident occurs.

Table 7-3: Preparedness and response

Emergency / incident	Preparation	Response	Responsibility
Significant adverse dust event due to weather conditions	<ul style="list-style-type: none"> Monitor meteorological conditions for the area Visually monitor works in high wind conditions High wind 'stop works' protocols in place Establish contingency strategy for additional dust control measures, additional water carts, dust suppressants, stockpile covers etc. 	<ul style="list-style-type: none"> Stop dust generating activities until adverse conditions subside. Deploy mitigation measures to dust producing areas. 	Site Supervisor D&C Environment Manager
Discovery of contamination or acid sulphate soils.	<ul style="list-style-type: none"> Review previous land uses Include contamination awareness in the site induction where the potential exists Include contingency in relevant work procedures and safe work method statements (SWMSs) Identify potential service providers for 	<ul style="list-style-type: none"> Quarantine suspected area Cover or provide dust mitigation Record incident in the INX as a safety incident Engage licensed/approved removal and disposal organisation 	Site Supervisor D&C Environment Manager

Emergency / incident	Preparation	Response	Responsibility
	contamination control and removal.	<ul style="list-style-type: none"> Complete post removal verification 	
Flooding	<ul style="list-style-type: none"> Monitor meteorological conditions All chemicals, fuels and other hazardous substances to be in secured containers and stored within a sealable shipping container Remove plant and equipment from low lying areas Review site drainage flow paths Redirect site drainage to prevent flooding of residential/business premises Ensure site drainage does not concentrate surface flow Review and address the potential for excess water entering the site Review and maintain erosion and sedimentation controls 	<ul style="list-style-type: none"> Recover materials washed from site including sediment and other waste. Check effectiveness of erosion and sedimentation devices and other flood controls maintain where required and safe to do so. 	Site Supervisor D&C Environment Manager
Temporary erosion and sediment controls are damaged.	<ul style="list-style-type: none"> Plan controls to be suitable for expected conditions Ensure sufficient materials, labour and plant are available for additional controls. 	<ul style="list-style-type: none"> A review of the site to be undertaken by the D&C Environmental Manager and Site Supervisor. Controls to be repaired or replaced within appropriate timeframes. 	Site Supervisor D&C Environment Manager

Emergency / incident	Preparation	Response	Responsibility
Spill of hazardous or toxic substance	<ul style="list-style-type: none"> Awareness training of appropriate response and procedures to be incorporated into site induction Material safety data sheets on site for all materials and kept up to date Adequate supply of absorbent materials available in the site compound and on vehicles at work location Emergency telephone numbers for emergency response organisations prominently displayed around office and issued to supervisors 	<ul style="list-style-type: none"> Ensure the area is made safe first. Contain or limit the spill using sandbags to construct a bund wall, use of absorbent material, temporary sealing of cracks or leaks in containers, use of geotextile or silt fencing to contain the spill. Report spills immediately to D&C Environmental Manager Material to be disposed of in accordance with the manufacturers' recommendations and applicable legislation. If required, implement procedures to notify the relevant authorities. 	Site Supervisor D&C Environment Manager
Vibration causing structural damage	<ul style="list-style-type: none"> Choose correct plant when working near structures Apply safe working distances during planning phase Implement vibration monitoring at commencement of vibration generating works to ensure compliance with standards 	<ul style="list-style-type: none"> Activities causing vibration would cease under direction of the D&C Environment Manager or Site Supervisor. Any occupants of buildings may be evacuated with due consideration to safety, and the area secured to prevent unauthorised access. A structural assessment to be undertaken and if any damage is 	D&C Environment Manager

Emergency / incident	Preparation	Response	Responsibility
		associated with construction, rectification work would be agreed.	
Unapproved clearing / damage to protected vegetation – threatened/endangered species.	<ul style="list-style-type: none"> Clearly demarcate site boundaries Clearly demarcate clearing areas and brief site personnel Identify/mark vegetation to be retained or that is protected. Identify species that may be impacted, include material within the project induction Included requirements within construction planning documentation. 	<ul style="list-style-type: none"> Immediately cease activities Engage consultant to assess damage to vegetation and presence of any endangered or threatened communities. 	Site Supervisor D&C Environment Manager
Injury/death to protected/endangered/threatened fauna.	<ul style="list-style-type: none"> Identify potentially impacted species prior to commencement on site. Identify species that may be impacted, include material within the project induction Review/inspect vegetation to be cleared prior to clearing – utilise ecologist/spotter where there is the potential for endangered/threatened species Engage with local vet/WIRES representative on the appropriate contact/procedure Develop site procedure for the short-term management of injured fauna 	<ul style="list-style-type: none"> Immediately cease activities upon discovery of injured fauna Implement procedure for short-term management and transportation to a designated vet or WIRES Undertake additional vegetation inspection to identify any remaining fauna prior to recommencement. 	Site Supervisor D&C Environment Manager

Emergency / incident	Preparation	Response	Responsibility
Damage / destruction of indigenous/Europe an heritage item.	<ul style="list-style-type: none"> • Ensure site investigations detail any heritage items on or in proximity to the site. • Include awareness material within the project induction • Develop a 'stop works' protocol for any heritage find on site. 	<ul style="list-style-type: none"> • Cease works and stabilise the area, under the direction of the D&C Environmental Manager or Site Supervisor. • Request an archaeologist to assess the significance and archaeological potential of the uncovered feature. 	Site Supervisor D&C Environment Manager

7.4.1 Environmental Incident Simulation Drills

Environmental incident simulation drills will be undertaken at least once every 12 months. Additional drills may be required at the discretion of the GRCLR Environment and Sustainability Manager in response to notifiable pollution incidents.

Environmental incident simulation drills may be integrated into other emergency and incident testing and training programs and delivered as a desktop simulation or practical exercise. The Environment and Sustainability will coordinate the drill and prepare a brief report on the outcomes and lessons learned.

7.5 Continuous Improvement

Continuous improvement of the Incident and Emergency Response Procedure will be achieved through ongoing evaluation of environmental management performance against environmental policies, objectives and targets for the purpose of identifying opportunities for improvement.

The continuous improvement process will be designed to:

- Identify areas of opportunity for improvement of environmental management and performance
- Determine the cause or causes of non-compliances and deficiencies
- Develop and implement a plan of corrective and preventative action to address any non-compliances and deficiencies
- Verify the effectiveness of the corrective and preventative actions
- Document any changes in procedures resulting from process improvement
- Make comparisons with objectives and targets
- Adopt mitigation measures from the ERA in the relevant management sub plans.

8 Inspections, Monitoring and Auditing

This section outlines the processes and procedures that will be implemented to monitor and review environmental performance and compliance with environmental requirements.

8.1 Environmental Inspections

The D&C Environment and Sustainability Manager and/or delegate will undertake pre-work inspections, weekly, and pre and post-rainfall inspections of the work sites to evaluate the effectiveness of environmental controls, and to ensure controls are in place in accordance with the ECMs and CEMP sub plans.

The environmental inspection checklist in Appendix A5 will be used to ensure that all environmental aspects are reviewed during inspection. Positive compliance and actions arising from the inspections will be recorded on the actions register and each action will be allocated to the supervisor for the work area for close-out. The environmental inspection checklist is a live document and will focus on high risk activities and processes, works in environmentally sensitive areas and site preparedness for adverse weather conditions. It will be updated regularly based on the progress of the Project and the outcomes of the quarterly risk assessment review.

Table 8-1 details the various inspections which will occur, their frequency and who will attend or arrange. All actions that arise from the site inspections listed in Table 8.1 will be closed out or responded to within the agreed time frames.

Records of monitoring and inspection will be documented and will be used to:

- Evaluate performance against legal, regulatory, contract, permit, licence and other commitments
- Identify required corrective actions
- Provide input into the process of review and improvement of environmental
- Track and trend progress against objective and targets
- Inform compliance requirements for environmental reporting.

Table 8-1: Environmental inspections

Activity	Type of Inspection	Frequency	Responsibility
Site inspection (quality, safety & environment)	Visual	Daily.	Site Supervisor.
Environmental inspection	Visual	Weekly or prior to and following significant rainfall events.	D&C Environment and Sustainability Manager or delegate.

Activity	Type of Inspection	Frequency	Responsibility
Environmental Representative / TfNSW representative inspection	Visual	Weekly or as determined by the nature of activities being undertaken and their associated environmental risks	GRCLR Environment and Sustainability Manager to accompany third party.
EPA or stakeholder inspection	Visual	On request.	GRCLR Environment and Sustainability Manager (or delegate) to accompany third party.
Noise and vibration inspection	Visual	<p>Minimum frequency of AA inspections will be determined based on the potential risk of noise impacts. Inspections will occur as a minimum, quarterly during site establishment works and fortnightly (every two-weeks) during construction.</p> <p>Additional site inspection can be undertaken by AA in the following events:</p> <ol style="list-style-type: none"> 1. Noise or vibration related complaint 2. Where a work site has not fully implemented the noise management protocols 3. Where requested by the IC/TfNSW to assess compliance with the Planning Approval 	<p>Acoustic Advisor</p> <p>GRCLR Environment and Sustainability Manager to accompany third party.</p>
Tree inspection	Visual	Prior to any works that may impact a tree as defined in the IoA.	<p>Independent Arborist</p> <p>D&C Environment and Sustainability Manager to accompany third party.</p>

Activity	Type of Inspection	Frequency	Responsibility
Site Shut-Down Inspection	Visual	<p>Where site needs to be shut down for an extended period of time (i.e. greater than three (3) consecutive days) for reasons including, but not limited to:</p> <ul style="list-style-type: none"> • predicted significant weather events; • public holidays; • handover of site to other contractors. <p>Inspections will occur:</p> <ul style="list-style-type: none"> • Maximum one (1) week prior to shut-down and immediately prior to site shut down; • Where shut-down extends beyond seven (7) consecutive days, weekly and immediately following any significant weather event; and <p>In response to a complaint.</p>	Site Supervisor and / or D&C Environment and Sustainability Manager.

8.2 Environmental Monitoring Programs

Table 8-2 provides the environmental monitoring programmes that will be implemented in consultation with government agencies during the construction of the Project. The programmes would be endorsed by the ER and submitted to the Secretary for information at least one month before commencement of construction.

Details of additional monitoring programmes, as required according to the environmental receptors of construction, are detailed in the individual sub plans which have been prepared together with this CEMP in accordance with CoA C3.

Table 8-2: Summary of monitoring programmes required by CoA C9

CoA / REMMM	Description	Relevant sub plan	Consultation requirements
CoA C9 (a) HY-1	Water quality (turbidity) monitoring	Soil and Water Management Sub Plan (PLR1SOM-GLR-ALL-PM-PLN-000035)	DPIE, EPA, relevant council(s)

CoA C9 (b)	Noise and vibration monitoring	Noise and Vibration Management Sub Plan (PLR1SOM-GLR-ALL-PM-PLN-000034)	Relevant council(s), EPA, NSW Health (as relevant)
CoA C9 (c)	Grey-headed flying fox monitoring	Flora and Fauna Management Sub Plan (PLR1SOM-GLR-ALL-PM-PLN-000033)	Environment, Energy and Science Group (DPIE)

In accordance with CoA C10, construction monitoring programmes listed in **Table 8-2** must provide the following:

- Details of baseline data available
- Details of baseline data to be obtained and when
- Details of all monitoring of the Project to be undertaken
- The parameters of the Project to be monitored
- The frequency of monitoring to be undertaken
- The location of monitoring
- The reporting of monitoring results against relevant criteria
- Procedures to identify and implement additional mitigation measures where results of monitoring are unsatisfactory
- Any consultation to be undertaken in relation to the monitoring programs.

8.3 Auditing and Reporting

Environmental audits would be conducted at regular intervals during construction of the Project to assess environmental performance and ensure compliance with all environmental obligations. Audits will include works undertaken by subcontractors. Internal and external environmental audits would be undertaken in accordance with *AS/NZS ISO 19011:2014 Guidelines for Auditing Management Systems* and follow an environmental audit programme submitted to the Secretary for information no later than one month before commencement of construction.

The environmental audit programme, as submitted to the Secretary, will implemented for the duration of construction. An indicative audit programme is provided in Table 8-3,. TfNSW has submitted the audit program to DPIE as part of the Compliance Tracking Program.

Table 8-3: Indicative Environmental Audit Programme

Audit	Scope	Timing	Responsibility	Recipient of audit report
Internal audit	Compliance with CoAs/REMMs/EPOs, legal requirements, TfNSW	Annually (alternate six months)	GRCLR Environment and Sustainability Manager	CAF GRCLR

Audit	Scope	Timing	Responsibility	Recipient of audit report
	<p>requirements, CEMP and sub plans</p> <p>[Each audit will follow an audit checklist which will focus on areas for improvement and high-risk activities.]</p> <p>[The findings of the internal audits will be used to update the compliance tracking program (Section 8.4)]</p>	to external audit)		
Independent audit	<p>Compliance with CoAs/REMMs/EPOs, legal requirements, TfNSW requirements, CEMP and sub plans,</p> <p>Environmental performance of the Project and its effects on the surrounding environment.</p> <p>Recommendation of measures and actions to improve environmental performance.</p> <p>[Each audit will follow an audit checklist which will focus on areas for improvement and high-risk activities.]</p> <p>[The scope will be prepared in consultation with the ER and TfNSW]</p>	<p>GRCLR will comply with the audit program scheduled by TfNSW.</p> <p>Annually (alternate six months to internal audit)</p>	<p>TfNSW</p> <p>Independent auditor</p>	<p>CAF</p> <p>GRCLR</p> <p>TfNSW</p> <p>Secretary</p>
TfNSW audit	<p>Compliance with CEMP and sub plans, Deed, and environmental protection licence.</p>	<p>Annually (at same time as external audit above).</p>	<p>TfNSW representative</p> <p>Independent auditor</p>	<p>CAF</p> <p>GRCLR</p> <p>TfNSW</p> <p>Independent auditor</p>

All independent environmental audits of the CSSI would be conducted by a suitably qualified, experienced and independent auditor with, where required, a team of independent technical experts, as required by CoA A42.

In accordance with CoA A43 TfNSW are required to submit a copy of the independent environmental audit report to the Secretary for information, with a response to any recommendation contained within the report within six weeks of completing the audit. GRCLR will

support this requirement by implementing all recommendations of the independent environmental audit report within six weeks of completion of the audit.

8.4 Compliance Tracking Program

A Compliance Tracking Program (CTP) has been prepared by TfNSW and endorsed by the ER. It is managed and maintained centrally by TfNSW for the entire PLR Program in accordance with CoA 30-32. A Compliance Tracking Register (CTR) will be maintained and updated in the INX System and will be reviewed quarterly by TfNSW. The CTR will be reviewed and endorsed by the ER every six months, and will be maintained by TfNSW for the duration of the Project, and for a minimum of one (1) year following the commencement of operations.

A Pre-construction Compliance Report will be prepared and submitted to the Secretary for information no later than one (1) month before the commencement of construction. The Pre-construction Compliance Report:

- Details how the CoAs pertinent to the pre-construction phase and commencement of construction have been complied with; and
- Proposed commencement dates of construction activities.

Six monthly Construction Compliance Reports will be prepared and submitted to DPIE for information from the date of the commencement of construction and for the duration of construction. The construction compliance reports will be endorsed by the ER and will include:

- A results summary and analysis of environmental monitoring
- The number of complaints received, including a summary of main areas of complaint, action taken, response given and proposed strategies for reducing the recurrence of such complaints
- Details of any review of, and minor amendments made to, the CEMP as a result of construction carried out during the reporting period
- A register of any reviews of consistency undertaken including outcome
- Results of any independent environmental audits and details of any actions taken in response to the recommendations of an audit
- A summary of all incidents notified in accordance with Conditions A44 and A46
- Any other matter relating to compliance with the terms of this approval or as requested by the Secretary.

Table 8-4 summarises the programme and frequency for compliance reporting. In accordance with CoA A33 each compliance report will be made publicly available on the project website and DPIE will be notified in writing when this has been done.

Table 8-4: Compliance Reporting

CoA	Item	Details	Timing	Responsibility	Recipient(s)
A31	Compliance Tracking Register	The Compliance Tracking Register in accordance with the Compliance Tracking Program	Compliance Tracking Register is reviewed quarterly by TfNSW.	GRCLR TfNSW	TfNSW
A34	Pre-construction Compliance Report	The Pre-construction Compliance Report must be submitted to DPIE for information and endorsed by the ER	At least one month before the commencement of construction	GRCLR	TfNSW ER DPIE
A37	Construction Compliance Reports	Construction Compliance Reports must be prepared and submitted to DPIE for information	Every six months from the date of the commencement of construction, endorsed by the ER.	GRCLR	TfNSW ER DPIE Project website
A43	Environmental Audit Report	Environmental Audit Report	Within six weeks of completing the audit.	GRCLR	DPIE
A44	Notification of Incidents	TfNSW will immediately notify the DPIE and ER of all environmental incidents. The notification will identify the Project (including the CSSI application number) and set out the location and nature of the incident.	Immediately after the Proponent becomes aware of an incident	TfNSW	DPIE

CoA	Item	Details	Timing	Responsibility	Recipient(s)
A45	Incident Report	a report to the DPIE within one week of the notification of an incident. The report will outline time and date of the incident, details of the incident and any consequent non-compliance with the CoA.	Within one week of notification of an incident	GRCLR TfNSW	DPIE
A47	Notification of Incident notified under POEO		Within 24 hours after notification give to EPA	GRCLR TfNSW	EPA DPIE
C16	Construction Monitoring Program		At least one month before the commencement of construction	GRCLR TfNSW	DPIE

8.5 Other Reporting

Additional reporting requirements identified in the Project documents are included in

Table 8-5. Further reporting may be necessary as works progress. In such circumstances,

Table 8-5 would be updated.

Table 8-5: Additional reporting requirements

Report	Details	Frequency	Responsibility	Recipient
Environment report	To be incorporated into the Project monthly report – to address environmental statistics (e.g. incidents, regulatory action, complaints on environmental issues), monitoring program performance, and key environmental issues	Monthly	GRCLR Environment and Sustainability Manager	TfNSW
ER monthly report	CoA A23 (i) Report on the ER's actions and decisions on matters specified in the ER Protocol for the preceding month of site environmental performance following routine inspections any non-compliances with the CEMP and corrective/management actions required.	Monthly	ER GRCLR to provide input	DPIE and other relevant regulatory agencies
Noise and Vibration Report	CoA A29 (h) Noise and Vibration Report detailing the AAs actions and decisions on matters for which the AA was responsible in the preceding month (or another timeframe agreed with the Secretary).	Monthly	AA DWJV to provide input	Secretary and other relevant regulatory agencies

8.6 Non-Compliance, Corrective and Preventative Actions

An environmental non-compliance is defined in the *TfNSW Guide to Environmental Incident and Non-compliance Reporting using the INX System 9TP-SD-005* as a non-compliance with any condition of approval, license condition or any other statutory approval or requirement relevant to the activity and/or area where the activity occurs. Environmental non-compliance may be identified through improvement opportunities, regular environmental inspections or monitoring, internal or external audits, complaints, community consultation, observations or through incident

management. The ER, AA, TfNSW and/or a public authority may also raise a non-compliance or improvement notice.

The D&C Environment Manager or delegate is responsible for the investigation, tracking and appropriate close-out of non-compliance. Where an environmental non-compliance is identified and is substantiated, a corrective action request will be issued following consultation with the concerned parties.

Non-compliance will be managed in accordance with the GRCLR Integrated Management System (IMS) and recorded in a corrective action report in accordance with:

- TfNSW Guide to Environmental Incident and Non-compliance Reporting using the INX System 9TP-SD-005
- TfNSW Environmental Incident Classification and Reporting 9TP-PR-105.

The corrective action report will document the agreed actions and timeframes for addressing the environmental non-compliance. Timeframes would be set to ensure any chance of recurrence is eliminated as soon as practicable. Environmental non-compliance of a serious nature will be closed out immediately.

The status of corrective actions would be reported at least monthly for review at the monthly management meeting. Non-compliance would be reviewed and reported on in the monthly environmental reports.

9 Review and Improvement

9.1 Management Reviews

Quarterly management reviews would be undertaken as part of the GRCLR continual improvement process. The management review process would consider the suitability and effectiveness of the environmental management system and effectiveness and proper implementation of this CEMP. This will involve a formal meeting, attended by the TfNSW representative and may include the wider management team and a review of systems from other functional areas.

The review will consider:

- Opportunities to improve environmental management processes and practices
- Client and agency feedback
- Consideration of non-compliances and deficiencies
- Consideration of effectiveness of corrective and preventative actions
- Changes or developments in the contractors' EMS.

The outcomes of the reviews may result in the amendment of this CEMP or related documents, revision to the environmental management system, risk assessment review, re-evaluation of the Project's objectives and targets as well as feeding into other Project documents. Necessary system improvements would be identified and raised as corrective actions. Any changes to this CEMP would be managed in accordance with Section 9.2.

9.2 Revision of this Plan

Periodic assessments and reviews of this CEMP and sub-plans will be conducted by project management personnel as required or at least every six months from the commencement of construction. This review will generate actions for the continual improvement of the CEMP and supporting management plans. The periodic or six monthly reviews of the CEMP will be offer specific opportunities to identify improvements in the documents. They would be updated as required:

- To take into account changes to the environment or generally accepted environmental management practices, new risks to the environment, any hazardous substances, contamination or changes in law
- Where requested or required by DPIE or any other authority
- In response to internal or external audits or quarterly management reviews, modification of approval, as results of complaints, incidents, non-compliance.

The updated plans must be endorsed by the GRCLR Environment and Sustainability Manager and approved internally by the Project Director.

Modifications to the CEMP or management sub plans must be submitted to the ER for endorsement. Minor amendments and administrative changes to CEMP may be approved by the ER, with consultation with the AA if relevant. These amendments will be included in the six monthly Construction Compliance Report in accordance with CoA A37.

Minor changes would typically include those that:

- Are editorial in nature (e.g. staff and agency/Authority name changes)

- Do not increase the magnitude of impacts on the environment when considered individually or cumulatively
- Are in response to audit findings or periodic reviews
- Do not comprise the ability of the Project to meet approval or legislative requirements.

Where the Environmental Representative deems it necessary, the revised plans would be provided to relevant stakeholders for review and comment if required and forwarded to the Secretary of DPIE for approval. The revised CEMP would be provided to ER and TfNSW for review prior to submission to any stakeholders or the Secretary.

10 Documentation

10.1 Environmental Records

The GRCLR Environment and Sustainability Manager is responsible for maintaining all environmental management documents and records as current at the point of use. Types of documents and records include:

- CEMP and sub plans
- Procedures and protocols
- Monitoring programmes
- Checklists, forms and templates
- internal and external audit reports,
- records of the Contractor's Subcontractors monitoring their own activities,
- records of the Contractor's monitoring of Subcontractors activities, and
- risk management records.

Environmental records may include, but are not limited to:

- All monitoring, inspection and compliance reports/records
- Surveillance and audits of subcontractors' environmental performance and controls
- Register of equipment used for environmental monitoring, equipment calibration frequency and certificates
- Correspondence with public authorities
- Environmental training including:
 - Who was trained
 - When the person was trained
 - The name of the trainer
 - A general description of the training content.
- Reports on environmental incidents, other environmental non-compliances, complaints
- and follow-up action
- Minutes of the CEMP and construction EMS review meetings and any resulting actions
- Results of internal and external audits.

All environmental management documents are subject to ongoing review and continual improvement. This includes times of change to scheduled activities or to legislative or licensing requirements.

Only the GRCLR Environment and Sustainability Manager, or their delegate, has the authority to change any of the environmental management documentation.

10.2 Document Control

GRCLR will coordinate the preparation, review and distribution of the environmental documents. The latest version of all documents would be retained on the Project

document management system. GRCLR will implement appropriate document control processes using Teambinder and Aconex to control the flow of documents within and between GRCLR and TfNSW, stakeholders and subcontractors. All environmental records will be retained for a period of no less than five years from the last Date of Portion Completion.

The process will also ensure that documentation is:

- Developed, reviewed and approved prior to issue
- Formally issued for use
- Controlled and stored for the legally required timeframe
- Removed from use and archived when superseded or obsolete.

A register will identify current document revisions, records or data. The Document Register will be maintained in the GRCLR IMS.

Appendices

Appendix A1: Relevant Legislation

Act	Summary of Obligations
<i>Environmental Planning and Assessment Act 1979</i> <i>Environmental Planning and Assessment Regulation 2000</i>	This Act and Regulation establishes a system of environmental planning and assessment of development proposals for the State.
<i>Local Government Act 1993</i> <i>Local Government (General) Regulation 2005</i>	The Local Government Act and Local Government (General) Regulation provide a legal framework for an environmentally responsible system of Local Government including the responsibility to administer various regulatory systems (e.g. Environmental Planning, Development Consents).
<i>Roads Act 1993</i> <i>Roads (General) Regulation 2000</i>	This Act and Regulation primarily provide for such things as the opening and closing of public roads, identification of road boundaries and road widening, road levels, classification of public roads, road work, protection of public road and regulation of traffic, regulation of work, structures and activities.
<i>Soil Conservation Act 1938</i>	This Act makes provision for the conservation of soil resources, farm water resources and the mitigation of erosion. The Act is binding on the Crown; however, the Crown is not liable for prosecution. The Act provides for notification in the government gazette catchments where erosion is liable to cause degradation of rivers, lakes etc. (i.e. protected land).
<i>Environment Protection and Biodiversity Conservation Act 1999</i>	The main purpose of this Act is to provide for the protection of the environment especially those aspects that are of national environmental importance and to promote ecological sustainable development. The Act binds the Crown. Do not take, use, keep or interfere with “nationally significant” cultural and natural resources, protected wildlife and protected plants without Approval.
<i>Biodiversity Conservation Act 2016,</i> <i>Local Land Services Act 2013</i>	This Act and Regulation provide for the conservation and management of Native Vegetation by requiring Development Consent to be obtained for the clearing of Native vegetation.
<i>Land and Environment Court Act 1979</i>	The Land and Environment Court is constituted under this Act. The jurisdiction of the Court is divided into numerous classes. The relevant classes for the project cover matter such as the prosecution for offences

Act	Summary of Obligations
	under various environmental legislation and to appeal against permits or orders.
<i>Greenhouse Gas (GHG) Emissions National Greenhouse and Energy Reporting Act 2007</i>	Corporations emitting more than 50kT of carbon dioxide equivalent units are required to register and report their Scope 1 and Scope 2 emissions for all Facilities in which they have Operational Control. Facilities emitting more than 25kT of carbon dioxide equivalent units must register and report Scope 1 and Scope 2 emissions.
<i>Contaminated Land Management Act 1997</i>	This Act provides for a process to investigate and remediate land that has been contaminated and presents a significant risk of harm to human health. Section 60 of the Act is a “Duty to Report Contamination”. This duty applies to owners of land and persons who become aware their activities have contaminated the land.
<i>Rural Fires Act 1997</i>	This Act is intended to prevent, mitigate and suppress bush and other fires. It places a duty on Laing O’Rourke as the occupier of the site to extinguish fires during bush fire danger periods or if unable to do so notify appropriate firefighting authorities of the existence of the fire and its location.
<i>Environmentally Hazardous Chemicals Act 1985</i>	This Act prohibits the manufacturing, processing, keeping, distributing, conveying, using, selling or disposing of an environmental hazardous chemical or waste (prescribed activity) except under the provisions of a chemical control or a licence. The EPA is required to prepare inventories of environmentally hazardous chemicals and declared chemical wastes.
<i>Dangerous Goods (Road and Rail Transport) Act 2008</i>	The purpose of this Act is to regulate the transport of Dangerous Goods by road and rail in order to promote public safety and protect property and the environment. The transport of Dangerous Goods is required to be appropriately licensed (both vehicle and driver).
<i>Water Management Act 2000</i> <i>Water Management (General) Regulation 2004</i>	This Act repeals the Rivers and Foreshores Improvement Act, 1948 and the Water Act, 1912. The provisions of both the aforesaid Acts are progressively rescinded as Water Management Plans are prepared and gazetted for catchment areas within the state. This Act and Regulation provide for the protection, conservation and ecologically sustainable development of water sources of the State and in particular to protect, enhance and restore water sources and their associated ecosystems.
<i>National Parks and Wildlife Act 1974</i>	The relevance of this Act is firstly in respect to the protection and preservation of aboriginal artefacts. Discovery of material on site suspected

Act	Summary of Obligations
	<p>as being of aboriginal origin must be reported and protected pending assessment and direction by TfNSW's Representative.</p> <p>Secondly, it is an offence under Part 8A of this Act to pick or harm threatened species. (Refer to the notes under the Threatened Species Conservation Act for more information)</p>
<i>Biodiversity Conservation Act 2016</i>	<p>This Act and Regulations provide for obtaining licenses to harm or pick threatened species populations or ecological communities whether plant or animal or to damage any critical habitat. The offence of picking or harming any threatened species is covered under the National Parks & Wildlife Act Part 8A. It is a defence under Part 8A of that Act if the offence was essential to carrying out development that is in accordance with a Development Consent within the meaning of the EP&A Act or an approval within the meaning of Part 5 of the EP&A Act.</p>
<i>Biosecurity Act 2015</i> <i>Biosecurity Regulation 2017</i>	<p>This Act relates to diseases and pests that may cause harm to human, animal or plant health or the environment, and for related purposes. Declared weeds are listed in Schedule 8 of the Biosecurity Regulation 2017.</p>
<i>Water Act 1912</i>	<p>This Act provides for licences to extract water for construction purposes either from surface or artesian sources.</p> <p>Should construction water be extracted from surface (other than sedimentation ponds) or artesian sources a licence will be required.</p>
<i>Heritage Act 1977</i>	<p>This Act provides for the preservation and conservation of heritage items such as building, works, relic, and places of historic interest, scientific, cultural, social, archaeological, architectural, natural or aesthetic significance.</p> <p>Under this Act a relic means any deposit, object or material evidence which is 50 or more years old and relates to the settlement of the area (not being an aboriginal settlement). It is an offence under this Act to wilfully and knowingly damage or destroy items of heritage value.</p> <p>Do not demolish damage, move or develop around any place, building, work, relic, moveable object, precinct, or land that is the subject of an interim heritage order or listing on the State Heritage Register or heritage listing in a Local Environmental Plan without an approval from the Heritage Council (NSW) or local council.</p>
<i>Aboriginal and Torres Strait Islander Heritage</i>	<p>This Act provides for the preservation and protection from injury or desecration to areas and objects of significance to Aboriginals. Areas and objects can be protected by Ministerial Declaration and it is then an offence to contravene such a declaration.</p>

Act	Summary of Obligations
<i>Protection Act 1984</i>	

Appendix A2: Environmental Risk Assessment

NUMBER	ACTIVITY	ENV ASPECT	RISK EVENT	CATEGORY	OWNER	CAUSES	CONSEQUENCES	CONTROLS/TREATMENTS	COSEQUENCE LEVEL			LIKELIHOOD	RISK RATING
		Element of activity that interacts with environment	Threat and/or Opportunity Description	Impact Category	Name	Cause/s (How and why it can happen)	Impact of Threat/Opportunity on Project	Name / Description	Financial	Program	Consequence Level	Likelihood Level	Risk Rating
			Lack of or Insufficient ... or Inappropriate ... Failure ... or Ineffective ... or Incorrect ... Under ... or Over ... or Non compliance ... Irrelevant ... or Opportunity ...	To be selected from the drop down list.	The person responsible for managing the risk.	What will cause this risk to occur? 'Current Controls' and 'Treatment Tasks' shall directly address the consequence(s) if the risk occurs i.e. reduce or eliminate. The causes documented here determine the 'Likelihood Level'	The most credible or likely consequence(s) of the risk, if it were to occur. 'Current Controls' and 'Treatment Tasks' shall directly address the consequence(s) if the risk occurs i.e. reduce or eliminate.	Current Controls directly manage (reduce or eliminate) the 'causes' and or the 'consequences'. Treatment Plans further attempt to reduce the likelihood or consequence levels. Where a treatment plan is included, the cost of the treatment plan needs to be captured in the estimate.	Financial impact: 1 - < \$300k 2 - up to \$1M 3 - up to \$10M 4 - up to \$30M 5 -> \$30M	Impact on program: 1 - < 1 week 2 - up to 2 weeks 3 - up to 1 month 4 - up to 2 months 5 - > 2 months	Impact or effect that the noted Risk will have if it occurs despite the controls and treatments. Use higher from columns H or I	Likelihood refers to the chance that the noted Risk has of occurring despite Controls and Treatments.	<i>Auto Fill in</i>
1	SAMF SITE												
1-1	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Breaking ground	Breach capillary layer resulting in release of contaminated materials (solid and liquid and gas).	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Capillary layer not at depth in as built. Design interface not aligned. Over excavation.	Pollution of waters/ soil/ air. OHS impacts. Program and cost (delay). Reputational. Fines/ prosecutions/ regulatory actions (including IR). Cost of restoration works and clean up costs. Project stops and repair works required. Delay to program.	Design interface - including federated model (including as built). Excavation permits. Training and inductions. Site Audit Statements. Spotter near excavator during works (marker layer/ visible marker). Compliance with LTEMP, and proper communication of LTEMP requirements to construction team.	5 - Substantial	5 - Substantial	5 - Substantial	Unlikely	Very High
1-2	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Breaking ground	Failure of physical remedation system and capping layer during construction.	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Poor construction and design. Poor quality control. Failure of SOM to identify defects prior to handover. Inadequate time to identify defects in remediation works.	Pollution of waters/ soil/ air. OHS impacts. Program and cost (delay). Reputational. Fines/ prosecutions/ regulatory actions (including IR). Cost of restoration works and clean up costs. Project stops and repair works required. Delay to program.	Defects identification process. SOM Q&A Systems. Monitoring of remediation works during SOM constuction (supervision). Supervision of Remediation Contractor during their works. AEO accreditation for Remediation Works (designers and consultants). Site Audit Process.	5 - Substantial	5 - Substantial	5 - Substantial	Rare	High
1-3	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Breaking ground	Failure of remediation system implementation/ management.	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Inadequate/ inappropriate LTEMP and LTEMP assumptions. SOM not involved in Site Audit Statement process.	Pollution of waters/ soil/ air. OHS impacts. Program and cost (delay). Reputational. Fines/ prosecutions/ regulatory actions (including IR). Cost of restoration works and clean up costs. Full physical failure of remedial works.	AEO accreditation for Remediation Works (designers and consultants). Site Audit Process. Engage independent contamination consultant to review LTEMP and SAS documentation.	4 - Major	5 - Substantial	5 - Substantial	Unlikely	Very High
1-4	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Operation of remediation system	Failure of remediation system implementation/ management.	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Failure to appropriately implement the LTEMP. Lack of training and communication. Failure to integrate LTEMP requirements into Safety and Environmental Management Plans (e.g. CLMP), processes and procedures.	Pollution of waters/ soil/ air. OHS impacts. Program and cost (delay). Reputational. Fines/ prosecutions/ regulatory actions (including IR). Cost of restoration works and clean up costs.	Monitoring (including TARP). Construction management plans (e.g. CFMP; Implementation of EMS. Training of workforce. Employ adequate resources to implement controls. Supervision and auditing of implementation.	4 - Major	5 - Substantial	5 - Substantial	Unlikely	Very High
1-5	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Use of plant and machinery	Noise and vibration impact to nearest receivers.	Noise and Vibration	Christopher Standing / Anita Rylah/ Lia Camillos	Unapproved out of hours works. Poor choice and maintenance of equipment/ plant. Inappropriate use of high noise impact equipment. No mitigation applied (e.g. noise barriers). No respite periods. Cumulative impacts with adjoining developments and industries.	Complaints. Reputational. Fines/ prosecutions/ regulatory actions. Impacts to sensitive equipment at adjoining businesses.	Implementation of the CNVMP/ CNVIS/ OOHW Protocol/ CNVMonP. Appropriate choice of plant, e.g. use of adequately sized plant to undertake the work so that engines don't labour, thereby reducing noise. Appropriately sized vibratory plant to minimise vibration impacts. Implement respite periods for high noise and vibratory works. Maintenance of plant and equipment Plant and equipment will be operated by competent personnel. Systems put in place to check operator competencies	1 - Negligible	1 - Negligible	1 - Negligible	Unlikely	Low
1-6	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Use of plant and machinery	Vibration impacts to adjoining structures and infrastructure.	Noise and Vibration	Jason Olivo / Travis Rawling	Inappropriate choice of vibratory plant. Not undertaking vibratory works in accordance with safe working distances.	Structural damage to adjoining buildings and assets.	Implementation of the CNVMP/ CNVIS/ Appropriately sized vibratory plant to minimise vibration impacts. Implement safe working distances. Maintenance of plant and equipment Plant and equipment will be operated by competent personnel. Systems put in place to check operator competencies	3 - Moderate	3 - Moderate	3 - Moderate	Unlikely	High
1-7	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Heavy vehicle and plant deliveries and transport	Increased heavy vehicle traffic on local roads.	Traffic and access	Jason Olivo / Travis Rawling	Poor planning/ scheduling of deliveries resulting in backlog of heavy vehicles around the SaMF site.	Complaints. Reputational. Fines/ prosecutions/ regulatory actions. Impacts to adjoining businesses and local traffic flows.	Implement TCP and TTAMP. Ensure adequate parking and waiting areas on site for heavy vehicles. Time delivery of floats to be outside of peak times, where possible. Allocate designated waiting areas for heavy vehicles coming to site in TCP and communicate to truck and haulage sub-contractors.	1 - Negligible	3 - Moderate	3 - Moderate	Possible	High

NUMBER	ACTIVITY	ENV ASPECT	RISK EVENT	CATEGORY	OWNER	CAUSES	CONSEQUENCES	CONTROLS/TREATMENTS	COSEQUENCE LEVEL			LIKELIHOOD	RISK RATING
		Element of activity that interacts with environment	Threat and/or Opportunity Description	Impact Category	Name	Cause/s (How and why it can happen)	Impact of Threat/Opportunity on Project	Name / Description	Financial	Program	Consequence Level	Likelihood Level	Risk Rating
1-8	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Construction vehicles and plant deliveries and transport	Construction vehicles (heavy and light vehicles) blocking local roads, and adjoining property access.	Traffic and access	Carla Brookes	Inadequate onsite parking for light vehicles (staff and workforce). Inadequate off-street marshalling areas for heavy vehicles (for parking and deliveries). Poor staging of construction works resulting in inadequate off-street parking areas. Failure to identify (and communicate) truck marshalling/ waiting areas, off-site for times when site parking is occupied.	Complaints. Reputational. Fines/ prosecutions/ regulatory actions. Impacts to adjoining businesses and local traffic flows.	Implement TCP and TTAMP. Ensure adequate parking and delivery areas on site for workforce and staff. Time delivery of floats to be outside of peak times, where possible. Allocate designated waiting areas for heavy vehicles coming to site in TCP and communicate	1 - Negligible	1 - Negligible	1 - Negligible	Possible	Low
1-9	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Wastewater management	Release of contaminated water from site, including groundwater from drainage pits.	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Inadequate pumping regime (frequency too low). Major rain event, causing overtopping of pits. Lack of available licenced receiving locations for waste water. Unauthorised water discharge.	Pollution of local waterways, including Duck Creek and Parramatta River. Polluted groundwater enters stormwater system. Exposure of local drainage sysem (natural and built) to chromium and PFAS from SaMF groundwater system. Fines/ prosecution/ regulatory action. Reputational.	Implement WQMonP. Implement LTEMP monitoring and discharge regime. Engage suitably licenced waste management contractor to extract and dispose of contaminated water. Implement permit to pump. Ensure pits are pumped prior to any forecast rainfall event.	5 - Substantial	2 - Minor	5 - Substantial	Rare	High
1-10	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Waste management	Inappropriate disposal of construction and office waste.	Waste	Christopher Standing / Anita Rylah/ Lia Camillos	Lack of waste tracking system. Choice of unlicensed waste contractor. Poor waste segretation on site, causing waste streams to be mixed.	Pollution of land/ water. Fines/ prosecution/ regulatory action. Reputational. Increased volume of waste going to landfill.	Implement CWRMP, waste tracking system, waste hierarchy. Allocated designated waste areas, segregating waste by type/ categorisation. Induction and training	2 - Minor	1 - Negligible	2 - Minor	Possible	Moderate
1-11	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Exposed surfaces and stockpiles	High winds cause dust deposition on adjoining areas.	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Lack of regular dust suppression activities. Undertaking high-risk activities during times of high winds. Ground cover/ stabilisation not used or maintained.	Complaints. Reputational. Fines/ prosecution/ regulatory action. Poor airquality. Required to clean adjoining properties (e.g. windows/ hard surfaces/ plant/ equipment, swimming pools/ etc).	Implement CAQMP. Undertake visual inspections during dust generating activities. Do not undertake dust generation activities during high wind events. Cease dust generaing activities at times of high wind. Use dust suppression measures (uncluding sprayers on equipment, water trucks, and street sweepers at site access/ egress points. Ensure hardstand is adequately compacted, and spray seal applied as required to further suppress dust on internal roads.	3 - Moderate	1 - Negligible	3 - Moderate	Possible	High
1-12	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Flooding	Flooding of construction site, and adjoining areas.	Pollution (water, land, air)	Jason Olivo / Travis Rawling	Heavy rainfall event causes Parramatta River or Duck Creek to flood the SaMF facility. Overland flows are poorly designed/ graded causing water to flow into adjoining properties.	Pollution of waters. Flooding (and therefore damage) to adjoining properties. Construction works cease. Flooding and damage to construction plant/ equipment and storage areas. Damage to construction works, requiring rework. Reputational. Fines/ prosecutions/ regulatory actions.	Implementation of CFMP. Undertake pre-shut down activities to secure the site in the lead up to forecast major weather events. Ensure site levels are constructed to ensure site is higher than the flood levels included in the EIS. Ensure all storage of plant, equipment and materials is located out of overlandflow paths.	5 - Substantial	5 - Substantial	5 - Substantial	Rare	High
1-13	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Use of lighting	Light Spill at night.	Community	Jason Olivo / Travis Rawling	Failure to use directional lighting on site.	Complaints from adjoining receivers. Reputational.	Implement the CEMP. Ensure directional lighting is installed for construction phsae, facing away from receivers.	1 - Negligible	1 - Negligible	1 - Negligible	Rare	Low
1-14	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Hazardous material storage and use	Spill of hazardous materials/ substances on and off site.	Pollution (water, land, air)	Jason Olivo / Travis Rawling	Failure to implement and maintain appropriate ERSED controls. Failure to provide spill kits. Failure to appropriately store and bund hazardous substances. Hydraulic leak from plant/ equipment. Refuelling accident.	Pollution of land and/or water, on and/or offsite. Reputational. Fines/ prosecutions/ regulatory actions.	Implement ERSED plan, Hazardous Materials Management Procedure. Install, monitor and maintain ERSED controls. No refuelling is to occur on site. No decanting of hazardous substances. Regular maintenance of plant, equipment and vehicles. Pre-start assessment of all plant and equipment prior to coming to site.	2 - Minor	1 - Negligible	2 - Minor	Possible	Moderate
1-15	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Water management	Unauthorised discharge of sediment laden water from site	Pollution (water, land, air)	Jason Olivo / Travis Rawling	Failure to implement and maintain appropriate ERSED controls. Failure to provide spill kits.	Pollution of water Reputational. Fines/ prosecutions/ regulatory actions.	Implement ERSED plan, Install, monitor and maintain ERSED controls.	2 - Minor	1 - Negligible	2 - Minor	Possible	Moderate

NUMBER	ACTIVITY	ENV ASPECT	RISK EVENT	CATEGORY	OWNER	CAUSES	CONSEQUENCES	CONTROLS/TREATMENTS	COSEQUENCE LEVEL			LIKELIHOOD	RISK RATING
		Element of activity that interacts with environment	Threat and/or Opportunity Description	Impact Category	Name	Cause/s (How and why it can happen)	Impact of Threat/Opportunity on Project	Name / Description	Financial	Program	Consequence Level	Likelihood Level	Risk Rating
1-16	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	General disturbance from construction activities	Unacceptable impacts to the operation of the Rosehill Racecourse and stables.	Community	Carla Brookes	Failure to consult with ATC in scheduling works.	Disruption of the races (noise, vehicle movements). Disturbance of the horses (noise, light spill at night, dust).	Undertake regular consultation with ATC. Coordinate major construction activities with ATC races, and events. See items 1-5, 1-7, 1-8, and 1-13, for further details of mitigation. Implement CEP.	2 - Minor	3 - Moderate	3 - Moderate	Rare	Moderate
1-17	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Noise generation	24 hour construction not possible.	Community	Carla Brookes	Community noise complaints result in restriction on access times, supplier delivery issues (noise related) and 24 hour works. Inaccurate noise modelling.	Program delay. Community complaints. Fines/ Prosecution/ regulatory action. Reputational.	Implement OOHW Protocol. Implement CNVMP, and recommended mitigation measures. Implement CNVIS'.	2 - Minor	3 - Moderate	3 - Moderate	Rare	Moderate
1-18	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Contaminated land management	Remnant contamination causes works to stop.	Pollution (water, land, air)	Christopher Standing / Anita Rylah/ Lia Camillos	Remediation Contractor does not complete remediation works to a satisfactory standard. The sliver is not adequately treated/ remediated/ capped.	Program delay as works cease and remediation works are redone. Cost of reworking remediation. Exposure of workforce to contaminants. Redesign/ replanning of construction works.	Site Auditor SAS process. Implement CCLMP, and LTEMP.	3 - Moderate	3 - Moderate	3 - Moderate	Possible	High
1-19	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Running of plant and equipment	Release of excessive greenhouse gas emissions and energy use	Greenhouse gas and energy	Christopher Standing / Anita Rylah/ Lia Camillos	Opportunities to limit greenhouse gas emissions not considered during construction planning Choice of plant and equipment Poor operator practices Poor maintenance of plant and equipment	Excessive greenhouse gas emissions Increased energy use Reputational Not meeting ISCA requirements	Consideration of sustainability objectives through construction planning Selection of plant and equipment Regular maintenance Operating equipment efficiently Prestart checks Induction and training	1 - Negligible	1 - Negligible	2 - Minor	Almost Certain	Moderate
1-20	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing	Use of water	Excessive use of potable water.	Resource use	Christopher Standing / Anita Rylah/ Lia Camillos	Poor personnel practices Opportunities to minimise water use not considered during construction planning	Waste of resources Cost Reputational Not meeting ISCA requirements	Consideration of sustainability objectives through construction planning Induction and training Use of recycled water system	1 - Negligible	1 - Negligible	1 - Negligible	Possible	Low
1-21	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Generation of waste	Excessive waste generation	Resource use	Jason Olivo / Travis Rawling	Poor personnel practices Opportunities to minimise waste not considered during construction planning Facilities not provided for waste segregation to divert waste from landfill	Waste of resources Cost Reputational Not meeting ISCA requirements	Consideration of waste minimisation through construction planning Induction and training Accurate procurement Provision of facilities for waste segregation	2 - Minor	1 - Negligible	2 - Minor	Likely	Moderate
1-22	Construction of SaMF including: - foundations - erection of buildings - drainage - installation of services - fencing - landscaping - lighting	Vehicle and plant movements	Impacts to fauna	Fauna	Jason Olivo / Travis Rawling	Poor construction planning Not following procedures Not adhering to speed limits	Impacts to fauna Reputational	Enforcing speed limits Induction and training Fauna spotter / catcher procedure Implementing traffic management	1 - Negligible	1 - Negligible	2 - Minor	Rare	Low

Consequence Criteria for THREATS

CRITERIA	CONSEQUENCE LEVEL 1 - Insignificant	CONSEQUENCE LEVEL 2 - Minor	CONSEQUENCE LEVEL 3 - Moderate	CONSEQUENCE LEVEL 4 - Major	CONSEQUENCE LEVEL 5 - Catastrophic
Workplace Health and Safety	Class 3 incident: First aid treatment and/or minor safe working breach unlikely to impact operational activities.	Class 3 incident: Medical treatment and/or moderate safe working breach likely to impact operational activities.	Class 2 incident: Serious medical/hospital treatment resulting in need alternate working or resulting in lost time injury. Significant safe working breach with actual impact on an operation.	Class 2 incident: Major, reversible injury, requires long term ongoing treatment and rehabilitation. Significant safe working breach with immediate impact on operations at one or more workites.	Class 1 incident: - Single fatality, any type of irreversible disability. Major injury to < 10 people, unable to return to work.
Physical Environment	Low severity environmental impact(s) that are promptly reversible and affected area is within the site boundary.	Nuisance or low severity environmental impact(s) that are promptly reversible and affected area is outside the site boundary.	Moderate severity environmental impact(s) where the affected area is within the site boundary.	Moderate severity environmental impact(s) where the affected area is outside the site boundary.	High severity environmental impact(s) of greater than local scale significance
Financial	Erodes forecast project profit by ≤ \$300k	Erodes forecast project profit by ≤ \$1M	Erodes forecast project profit by ≤ \$10M	Erodes forecast project profit by ≤ \$30M	Erodes forecast project profit by > \$30M
Quality Management	Observations/recommendations identified can be resolved locally. No impact on achieving specifications/fitness for purpose	Minor non-conformances/defects identified can be resolved locally. Specifications/fitness for purpose will be still achieved	Major non-conformances/defects identified can be resolved locally but will have impacts on achieving specifications/fitness for purpose	Major non-conformances/defects identified cannot be resolved locally. Will have major impacts on achieving specifications/fitness for purpose	Major non-conformances/defects identified cannot be resolved within the Business Stream, Unit or Functional Area, inability to achieve practical completion and/or project close out
Project Programme	≤ 1 week	≤ 2 weeks	≤ 1 month	≤ 2 months	> 2 months
Change Management and Internal Stakeholders	Consequences adversely impact a discrete project/contract delivery team	Consequences adversely impact the project/contract delivery team or department within a business unit	Consequences adversely impact a business unit	Consequences adversely impact a business stream	Consequences adversely impact the parent companies
Human Resources/Industrial Relations	Consequences of an event are restricted to the project/contract where the concern arose.	Consequences of an event are restricted within a single business unit of a business stream.	Consequences of an event affect more than 1 business unit within a business stream.	Consequences of an event affect multiple business units across multiple business streams within the Group.	Consequences of an event affect the parent companies.
Governance, Legal and Regulatory	Very minor technical breach of regulation or policy or code of ethics. No fine/penalty.	Minor legal issues, non-compliances and breaches of regulation, policy or code of ethics. No criminal prosecution.	Moderate breach of regulation, policy or code with investigation or report to authority. Moderate legal proceedings initiated.	Significant breach of regulation, policy or code with fine or other regulatory action. Significant litigation/legal action. Criminal prosecution.	Major breach of regulation, policy or code with fine. Major litigation. Major investigation by regulatory body.
Reputation, Community and Media	Public concern restricted to local complaints.	Minor, adverse local public or media attention and complaints.	Attention from media and/or heightened concern by local community. Low level criticism by NGO's.	Significant adverse national media/public/NGO attention.	Serious public or media outcry with international coverage. Significant negative impact on share price for weeks.
Management Impact	Impact of event absorbed through normal activity.	Local operation of emergency and crisis response plan implemented will require some local management attention over several days.	Significant event that can be managed with careful attention, will take some project managers much time for several weeks.	Major event that requires the implementation of crisis and contingency plans at a project/contract level will require the involvement of OpCo managers and will take up the time of project managers for several weeks.	Critical event or disaster with significant impact on an OpCo that requires considerable senior management time to handle over several months, full implementation of an OpCo crisis management plan.

Consequence Criteria for OPPORTUNITIES

CRITERIA	CONSEQUENCE LEVEL 1 - Insignificant	CONSEQUENCE LEVEL 2 - Minor	CONSEQUENCE LEVEL 3 - Moderate	CONSEQUENCE LEVEL 4 - Major	CONSEQUENCE LEVEL 5 - Catastrophic
Workplace Health and Safety	Prevention of Class 3 incident: First aid treatment and/or minor safe working breach unlikely to impact operational activities.	Prevention of Class 3 incident: Medical treatment and/or moderate safe working breach likely to impact operational activities.	Prevention of Class 2 incident: Serious medical/hospital treatment resulting in need alternate working or resulting in lost time injury.	Prevention of Class 2 incident: Major, reversible injury, requires long term ongoing treatment and rehabilitation.	Prevention of Class 1 incident: Single fatality, any type of irreversible disability, major injury to < 10 people, unable to return to work.
Physical Environment	Minor positive environmental impact(s) within the site boundary.	Minor positive environmental impact(s) that extends outside the site boundary.	Moderate positive environmental impact(s) within the site boundary.	Moderate positive environmental impact(s) that extends outside the site boundary.	High positive environmental impact(s) of local scale significance.
Financial - Forecast Profit	Increases forecast project profit by ≤ \$300k	Increases forecast project profit by ≤ \$1M	Increases forecast project profit by ≤ \$10M	Increases forecast project profit by ≤ \$30M	Increases forecast project profit by > \$30M
Quality Management	Observations/recommendations/innovation identified will assist achieve specification/fitness for purpose	Minor improvements/innovation identified will assist achieve specification/fitness for purpose locally	Major improvements/innovation identified will assist/fitness for purpose locally. May add value at the business unit level	Major improvements/innovation identified will exceed specification/fitness for purpose at the business unit level and add value across the business stream	Major improvements identified will exceed specification/fitness for purpose at the business stream level and add value at the parent company levels
Project Programme	≤ 1 week early	≤ 2 weeks early	≤ 1 month early	≤ 2 months early	> 2 months early
Change Management and Internal Stakeholders	Consequences positively impact a discrete project/contract delivery team	Consequences positively impact the project/contract delivery team or department within a business unit	Consequences positively impact across a business unit or department	Consequences positively impact a business stream	Consequences positively impact parent companies
Human Resources/Industrial Relations	Prevents an event where the consequences could have been restricted to the project/contract where the issue arose.	Prevents an event where the consequences could have affected more than 1 business unit within a business stream.	Prevents an event where the consequences could have affected more than 1 business unit within a business stream.	Prevents an event where the consequences affect multiple business units across multiple business streams within the Group.	Prevents an event where the consequences could have affected the parent companies.
Governance, Legal and Regulatory	Prevents very minor technical breach of regulation or policy or code of ethics.	Prevents minor legal issues, non-compliances and breaches of regulation, policy or code of ethics.	Prevents moderate breach of regulation, policy or code with investigation or report to authority. Prevents moderate legal proceedings being initiated.	Prevents significant breach of regulation, policy or code with fine or other regulatory action. Significant litigation/legal action. Prevents criminal prosecution.	Prevents major breach of regulation, policy or code with fine. Prevents major litigation. Prevents major investigation by regulatory body.
Reputation, Community and Media	No complaints. No negative coverage.	Brief positive local media coverage. Minor stakeholder praise.	Positive local media attention. Sectional community praise publicly expressed.	Consistent positive local media attention. Community praise and satisfaction expressed publicly. Stakeholder action resulting in enhancements to project/contract key elements.	Consistent, significant positive local media attention. Significant community praise and satisfaction expressed publicly. Stakeholder action resulting in enhancements to project/contract outcomes.
Management Impact	Prevents additional impact	Prevents an impact that would have otherwise required minor management attention over several days to weeks	Prevents an impact that would otherwise have required moderate management attention over several weeks to months. Prevents implementation of a small scale contingency plan	Prevents an impact that would otherwise have required moderate management attention over several weeks to a month. Prevents implementation of a small scale contingency plan	Prevents an impact that would otherwise have required the deployment of a project/contract-wide crisis management plan

Likelihood Table

	RATING	PROBABILITY OR CHANCE	QUALITATIVE ASSESSMENT	RECURRENCE TIMEFRAME
LIKELIHOOD	Almost Certain	≥ 90%	Almost certain to occur during the project	More often than "Monthly"
	Likely	51% to 89%	Considered likely to occur during the project	"Monthly" to "Yearly"
	Possible	30 to 50%	Considered a possible occurrence during the project	Between 1 and 5 years
	Unlikely	5 to 29%	Considered unlikely to occur during the project	Between 5 and 20 years
	Rare	< 5%	Considered a rare occurrence to happen during the project	Greater than every 20 years

Probability	Consequence	Negligible	Minor	Moderate	Major	Substantial
	Rating	1	2	3	4	5
Almost Certain	5	5 (Low)	10 (Moderate)	18 (Very High)	23 (Extreme)	25 (Extreme)
Likely	4	4 (Low)	9 (Moderate)	17 (Very High)	20 (Very High)	24 (Extreme)
Possible	3	3 (Low)	8 (Moderate)	13 (High)	19 (Very High)	22 (Very High)
Unlikely	2	2 (Low)	7 (Low)	12 (High)	15 (High)	21 (Very High)
Rare	1	1 (Low)	6 (Low)	11 (Moderate)	14 (High)	16 (High)

Appendix A3: Environmental Policy

GREAT RIVER CITY LIGHT RAIL ENVIRONMENT AND SUSTAINABILITY POLICY

Intent

Great River City Light Rail Pty Ltd (GRCLR) is the Supply, Operate and Maintain (SOM) Contractor for Parramatta Light Rail Stage 1. We understand what goes into making every journey an exceptional customer experience that is safe, reliable and integrated with other modes of transport.

GRCLR will design, construct, operate and maintain a world-class light rail network that empowers prosperity for the Greater Parramatta Area and supports the realisation of the Future Transport 2056 Strategy.

GRCLR is committed to ensuring an environmentally sustainable future for Parramatta Light Rail, our customers and the Greater Parramatta Area.

Policy

To achieve this, GRCLR will:

1. Lead effectively and live our accountabilities and responsibilities at all levels of the organisation, starting with the Directors through to employees and Subcontractors. This includes all upholding the principles of social sustainability and social accountability across our workforce, our activities and our supply chain;
2. Comply with all environmental requirements included in relevant legislation, the Conditions of Approval, and the Environmental Impact Statement;
3. Integrate sustainability across all GRCLR activities, including design, construction, procurement, commissioning, operations and maintenance;
4. Collaborate with and proactively engage with all stakeholders at all levels;
5. Create a culture of continuous improvement for environment and sustainability management;
6. Understand, comply with and embrace our environment and sustainability responsibilities;
7. Establish annual objectives for environmental management and regularly verify the compliance and effectiveness of the measures to ensure that objectives are met;
8. Promote an environmentally aware, sustainability-focused culture within GRCLR, stakeholders, customers and the Greater Parramatta Community;
9. Commit to the prevention of pollution, protection of biodiversity, implementation of restorative actions, minimisation of resource use, and enhancement of climate change resilience through adaptation and mitigation across the delivery of works; and
10. Plan effectively, and provide and use the necessary resources to meet environmental objectives.

To support this policy, GRCLR has established an Integrated Management System (IMS), with appropriate policies, procedures and practices in place, which captures the requirements of AS/NZS ISO 14001:2016.

This Policy will be communicated to and applies to all GRCLR employees and Subcontractors, and will be made publicly available.


Peter Matthews
Project Director

GREAT RIVER CITY LIGHT RAIL
LIFE MORE LIVEABLE 

Document Owner	Document Number	Version	Date of Issue	28/11/2019
Peter Matthews	PLR1SOM-GLR-ALL-PM-PRO-000004	1	Last Review Date	28/11/2019
			Review period	Annual
			Next review Date	07/05/2020

Appendix A4: Environmental Inspection Checklist

GRCLR Environmental Inspection Checklist

Project / Work Area:	
Inspection Date:	
Weather Conditions:	Dry <input type="checkbox"/> Slight Wind <input type="checkbox"/> Calm <input type="checkbox"/> Rain <input type="checkbox"/> Strong Wind <input type="checkbox"/>

Inspection Item	Acceptable (Y/N or n/a)	Supporting evidence	Action required and location	By	Closed (date)
1. Environmental Documents					
Have ECMs been developed for the area of works					
2. Water Quality					
Erosion controls required (i.e. sediment fences, geofabric) installed and in good working condition					
Catch drains/controls installed in proximity to waterways/drainage lines					
Works within waterway buffer zone (50m)					
Temporary flow diversions installed in flowing waterways					
3. Soil Conservation					
Stockpiles are away from waterways and drainage lines					
Do long term stockpiles require seeding					
Are areas of disturbed soil exposed to erosion					
4. Air quality					
Is dust from construction visible during inspection					
Is a water cart available to wet down areas					
Have daily inspections been conducted for dust					
5. Flora					
Is there protected/threatened flora present at area of works					
Are sensitive areas & protected vegetation protected with no-go zone fencing					
Are stockpiles kept away from					

Inspection Item	Acceptable (Y/N or n/a)	Supporting evidence	Action required and location	By	Closed (date)
no-go zones					
6. Fauna					
Is there protected/threatened flora present at area of works – Are controls in place					
Are sensitive areas & protected vegetation protected with no-go zone fencing					
7. Weed management					
Are weed-wash/brush-down areas being used/available					
Plant utilising access/haul roads					
8. Landscape Rehabilitation					
Is topsoil being stockpiled separately					
Are works being conducted with minimal footprint					
9. Archaeology and Heritage					
Is there any potential for Indigenous Heritage items to be impacted within works zone					
Are Heritage no-go and exclusion zones established and signed					
10. Groundwater					
Has groundwater been intercepted during works					
Is there a plan/procedure for dewatering					
11. Noise & Vibration					
Are works being conducted during normal working hours					
Is there potential for vibration impacts from works					
12. Hazardous Substances & Dangerous Goods					
Are spill kits available/accessible to plant operators					
Is there evidence of hydraulic/vehicle oil spills on site					
13. Waste Management					
Is the site clean and waste bins available					
Are appropriate and segregated waste bins available					

Additional Items / Opportunities for Improvement / Innovations			
Inspection by			
Signature:		Date:	

DRAFT

Appendix A5: SOM Organisational Charts

Figure A5 – 1 GRCLR Organisational Chart

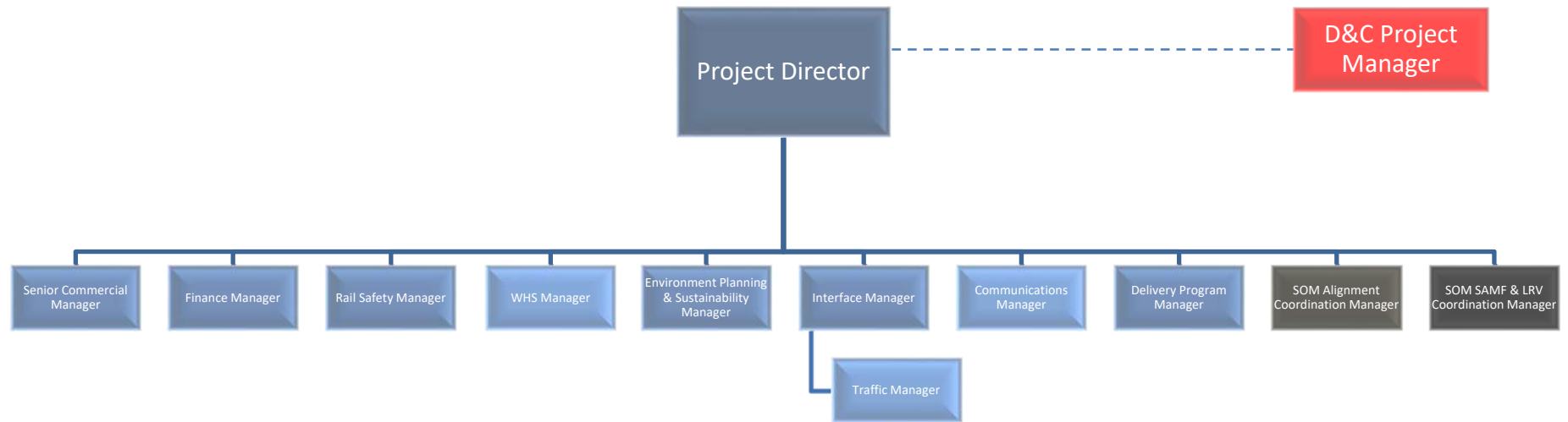


Figure A5 – 2 D&C Organisational Chart (Part A)

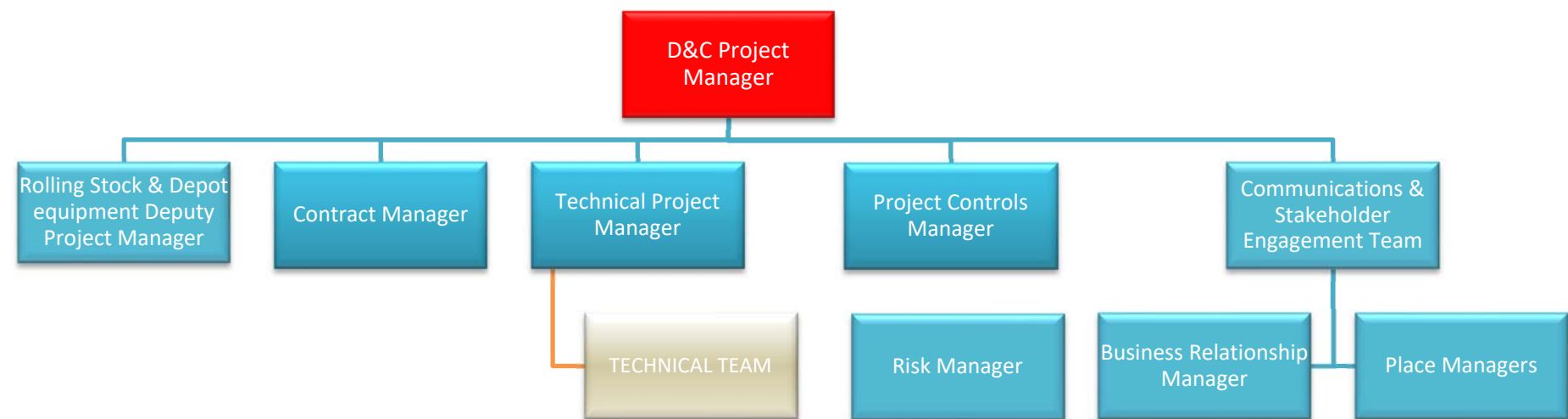
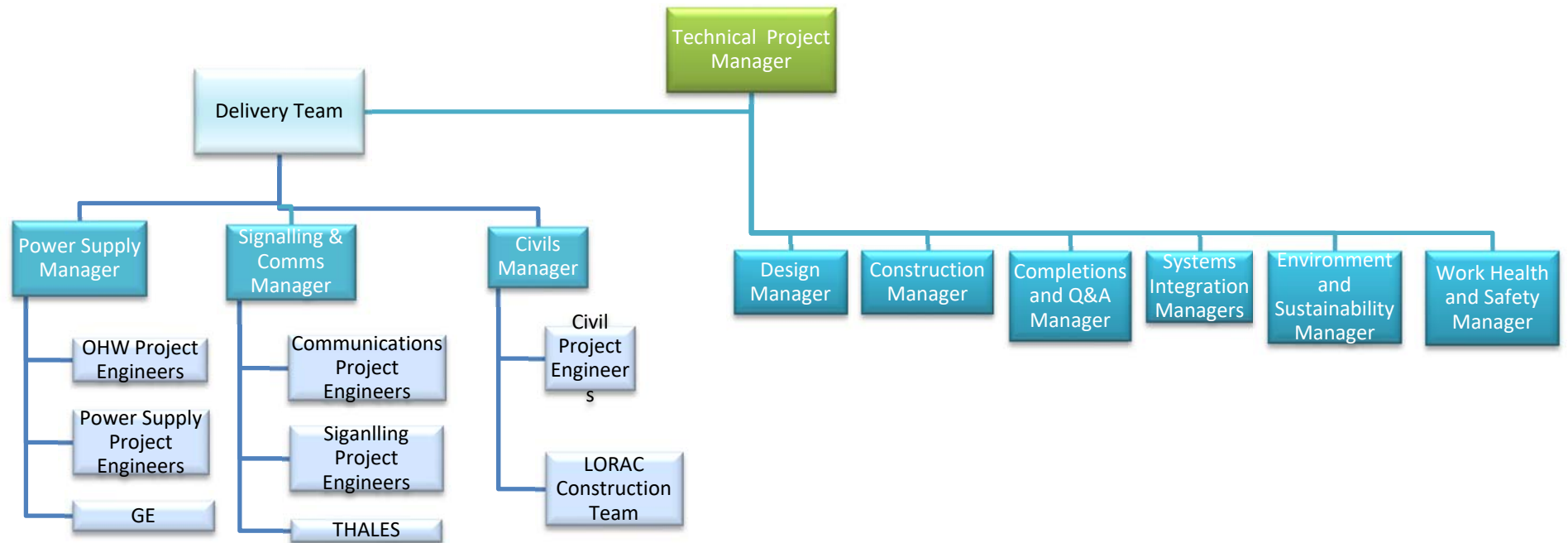


Figure A5 – 2 D&C Organisational Chart (Part B)



Appendix A6: CEMP Consultation Report

CoA A5 Consultation Report – Construction Environmental Management Plan

**Transport for NSW
Stage/ Package**

**Parramatta Light Rail
July 2020
[PLR1SOM-GLR-ALL-EN-RPT-001002 and Revision C]**

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Construction Environmental Management Plan

Parramatta Light Rail – Stage 1

July 2020

PLR1SOM-GLR-ALL-EN-RPT-001002 / 
Revision C

Version control

Revision	Date	Description	Approval
A	20 July 2020	CoA A5 Compliance	
B	31 July 2020	Updated based on ER comments	
C	19 Aug 2020	Updated with additional CoPC consultation	

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Glossary/Abbreviations

Abbreviation	Expanded text
CEMP	Construction Environmental Management Plan
CFFMP	Construction Flora and Fauna Management Plan
CFMP	Construction Flood Management Plan
CHMP	Construction Heritage Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CNVMonP	Construction Noise and Vibration Monitoring Program
CTTAMP	Construction Traffic, Transport and Access Management Plan
CWQ(T)MonP	Water Quality (Turbidity) Monitoring Program
CoA	NSW Minister for Planning Conditions of Approval
CoPC	City of Parramatta Council
DPIE	Department of Planning, Industry and Environment
EIS	Environmental Impact Statement
EP&A Act	<i>Environmental Planning and Assessment Act 1979 (NSW)</i>
EPA	NSW Environment Protection Authority
EPL	Environment Protection Licence
FMDR	Flood Management Design Report
Minister, the	Minister for Planning, Industry and Environment
OEH	Office of Environment and Heritage
ONVR	Operational Noise and Vibration Review
PIRMP	Pollution Incident Response Management Plan
Planning Approval	The Planning Approval includes the Conditions of Approval, the EIS and the Submissions and Preferred Infrastructure Report
Proponent, the	Transport for NSW
POEO Act	<i>Protection of the Environment Operations Act 1997 (NSW)</i>
Project, the	Parramatta Light Rail – Westmead to Carlingford
REMMM	Revised Environmental Mitigation and Management Measure as outlined in the Project SPIR documentation.
ROL	Road occupancy licence
SEMP	Site Establishment Management Plan
SPIR	Submission and Preferred Infrastructure Report

Abbreviation	Expanded text
TfNSW RM	TfNSW Roads and Maritime
UDRR	Urban Design Requirements Report

1 Introduction

1.1 Background

Parramatta Light Rail is one of the NSW Government's major infrastructure projects being delivered to serve a growing Sydney.

Parramatta Light Rail will connect Westmead to Carlingford via Parramatta Central Business District (CBD) and Camellia. PLR 1 is expected to be operational in 2023.

The project will create new communities, connect great places and help both local residents and visitors move around and explore what the region has to offer. The route will link Parramatta's CBD and train station to a number of key locations, including the Westmead Precinct, the Parramatta North Growth Centre, the new Western Sydney Stadium, the Camellia Town Centre, the new Powerhouse Museum and Riverside Theatre arts and cultural precinct, the private and social housing redevelopment at Telopea, the Rosehill Gardens Racecourse and the three Western Sydney University campuses.

In summary, the key features of the project include:

- A new dual track light rail network of approximately twelve (12) kilometres in length, including approximately seven (7) kilometres within the existing road corridor and approximately five (5) kilometres within the existing Carlingford Line and Sandown Line, replacing current heavy rail services
- Sixteen (16) stops that are fully accessible and integrated into the urban environment including a terminus stop at each end of Westmead and Carlingford
- High frequency 'turn-up-and-go' services operating seven days a week from 5am to 1am. Weekday services will operate approximately every 7.5 minutes in the peak period between 7am and 7pm
- Modern and comfortable air-conditioned light rail vehicles, nominally 45 metres long and driver-operated, each carrying up to 300 passengers.
- Intermodal interchanges with existing public transport services at Westmead terminus, Parramatta CBD and the Carlingford terminus
- Creation of two light rail and pedestrian zones (no general vehicle access) within the Parramatta CBD along Church Street (generally between Market Street and Macquarie Street) and along Macquarie Street (generally between Horwood Place and Smith Street)
- A Stabling and Maintenance (SaM) Facility located in Camellia for light rail vehicles to be stabled, cleaned and maintained
- New bridge structures along the alignment including over James Ruse Drive and Clay Cliff Creek, Parramatta River (near the Cumberland Hospital), Kissing Point Road and Vineyard Creek, Rydalmere
- Alterations to the existing road network including line marking, additional traffic lanes and turning lanes, new traffic signals, and changes to traffic flows
- Relocation and protection of existing utilities
- Public domain and urban design works along the corridor and at Stop precincts
- Closure of the heavy rail line between Carlingford and Clyde
- Active transport corridors and additional urban design features along sections of the alignment and within Stop precincts

- Integration with the Opal Electronic Ticketing System (ETS)
- Real time information in light rail vehicles and at Stops via visual displays and audio.

An overview of Parramatta Light Rail Route is shown in Figure 1-1.



Figure 1-1: Parramatta Light Rail Route

1.1.1 Statutory Context

The Parramatta Light Rail is subject to environmental impact assessment under the *Environmental Planning and Assessment Act 1979* (EP&A Act). It is classified as Critical State Significant Infrastructure (CSSI).

Detailed environmental impact assessments have been carried out and approved by the Minister for Planning. The Planning Approval for the project is described in Section 1.1.2.

1.1.2 Parramatta Light Rail Planning Approval

The Environmental Impact Statement (EIS) assessed impacts for Parramatta Light Rail (Westmead to Carlingford). This covered the light rail and associated works including road enabling work. It was approved by the Minister for Planning on 29 May 2018.

The planning approval (Infrastructure approval SSI 8285) and related environmental assessment documents are located on Department of Planning and Environment's Major Project website:

1.2 Purpose of this Consultation Report

This Consultation Report has been prepared to meet the requirements of the CSSI approval, in particular Condition of Approval (CoA) A5. A5 outlines the requirements for undertaking and documenting consultation undertaken during the preparation of certain plans, programs and reports required under the CoA. Deliverables that GRCLR is responsible (in full or part) for as part of the SOM package, which required to comply with CoA A5 include the following:

- Construction Environmental Management Plan (CoA C1, C2);
- Traffic, Transport and Access Management Plan (CoA C3(a));
- Noise and Vibration Management Plan (CoA C3(b));
- Flood Management Plan (CoA C3(c));
- Heritage Management Plan (CoA C3(d));
- Flora and Fauna Management Plan (CoA C3(e));
- Water Quality (Turbidity) Monitoring Program (CoA C9(a));
- Noise and Vibration Monitoring Program (CoA C9(b));
- Site Establishment Management Plan (CoA C18);
- Pedestrian and Cyclist Network and Facilities Strategy (parts (f) – signage and wayfinding and (g) only – cycle facilities on LRVs) (CoA E14);
- Operational Noise and Vibration Review (CoA E48);
- Heritage Interpretation Strategy (CoA E64) – Implementation Component only;
- Electromagnetic Management Plan (CoA E117);
- Final Hazard Analysis and Construction Safety Study (CoA E132).

This particular Consultation Report has been prepared in support of the Construction Environmental Management Plan (CEMP) which is required to be prepared under CoA C1 and C2 and for which consultation is required to be undertaken with the following agencies and stakeholders under CoA C5:

- Relevant government agencies (including relevant Council(s)), which for this CEMP includes:
 - Environment Protection Authority (EPA);
 - Roads and Maritime Services (RMS); and
 - City of Parramatta Council (CoPC).

1.3 Compliance with CoA

This section discusses the compliance of this Consultation Report with the relevant CoA as applicable to consultation required to be undertaken during the development of the Construction Environmental Management Plan (CEMP).

Table 1 lists the applicable CoA, where and how they have been addressed in this Consultation Report.

Table 1: Compliance with Applicable CoA

CoA ID	CoA Detail	Where Addressed	How Addressed
A5	Where the terms of this approval require a document or monitoring program to be prepared or a review to be undertaken in consultation with identified parties, evidence of the consultation undertaken must be submitted to the Secretary with the document or monitoring program or review. The evidence must include:	This Consultation Report.	This consultation report provides identifies of each of the stakeholders and agencies consulted in the preparation of this plan (Section 1.2). Full correspondence and documentation exchanged during consultation is found the Appendix A1 through A4 inclusive.
A5	(a) documentation of the engagement with the party(ies) identified in the relevant condition of approval before submitting the document for approval;	This Consultation Report.	Full correspondence and documentation exchanged during consultation is found the Appendix A1 through A4 inclusive. Each appendix relates to a different stakeholder/ agency, thereby ensuring all evidence for each is consolidated in a single appendix. All correspondence is provided in a chronological order.
A5	(b) log of the points of engagement or attempted engagement with the identified party(ies) and a summary of the issues raised by the identified party(ies);	Section 2 of this Report.	Section 2 includes, by Stakeholder / agency, a log of all points of engagement completed or attempted. It also summarises the issues raised by each stakeholder.
A5	(c) documentation of any follow-up with the identified party(ies), where feedback has not been provided, to confirm that the identified party(ies) has none or has failed to provide feedback after repeated requests;	Section 2 of this Report.	Section 2 includes, by Stakeholder / agency, a log of all points of engagement completed or attempted.
A5	(d) outline of the issues raised by the identified party(ies) and how they have been addressed, including evidence that the party(ies) is satisfied the issues have been addressed; and	Section 2 of this Report and Appendix A1 through A5.	Section 2 identifies all the issues raised during consultation. It provides in tabular format: <ul style="list-style-type: none"> • Issue raised; • Date raised; • How it was addressed or justification as to why it wasn't addressed; • Details of whether the Stakeholder was satisfied with the outcome. Section 2 then provides cross-

CoA ID	CoA Detail	Where Addressed	How Addressed
			<p>referencing to the relevant Appendix identifying where evidence of the above is documented in full within this Report.</p> <p><i>Note: Section 2 is broken down into each Stakeholder consulted with, and each has their own table addressing the above.</i></p>
A5	(e) where there are outstanding issues raised by the identified party(ies) that have not been adopted, the reasons why they have not been/could not be adopted must be provided, including evidence of consultation with the relevant party(ies).	Section 2 of this Report.	<p>Section 2 identifies all the issues raised during consultation. It provides in tabular format:</p> <ul style="list-style-type: none"> • Issue raised; • Date raised; • How it was addressed or justification as to why it wasn't addressed; • Details of whether the Stakeholder was satisfied with the outcome. <p><i>Note: Section 2 is broken down into each Stakeholder consulted with, and each has their own table addressing the above.</i></p>
C5	The CEMP Sub-plans must be developed in consultation with relevant government agencies (including Relevant Council(s)).	This Report.	<p>This Consultation Report has been prepared to address the consultation undertaken on the CEMP for the SOM Works.</p> <p>A summary of the content of this Report is contained in Section 1.2.3 of the CEMP, however all the consultation requirements of CoA A5 and C5 are addressed in detail in this Report.</p>
C5	Details of all information requested by an agency to be included in a CEMP Sub-plan as a result of consultation, including all copies of correspondence from those agencies, must be provided to the Secretary with the relevant CEMP Sub-plan.	Other Consultation Reports.	Each CEMP Sub-plan will include a summary of consultation undertaken for that plan. Additionally, each will also have a separate Consultation Report which addresses in detail CoA A5 and C5.

1.4 Consultation Process

Below Figure 2 presents the consultation process that was undertaken for the SOM Construction Environmental Management Plan. It should be noted that consultation was undertaken during COVID-19 lockdown, and as such, was undertaken using non-face to face means, including:

- Formal correspondence; (Team Binder);
- Formal correspondence (standard email);
- Phone Calls; and
- Teams Meetings (only when requested by the stakeholder).

CONSULTATION PROCESS FOR DOCUMENTS REQUIRING CONSULTATION BY THE COA

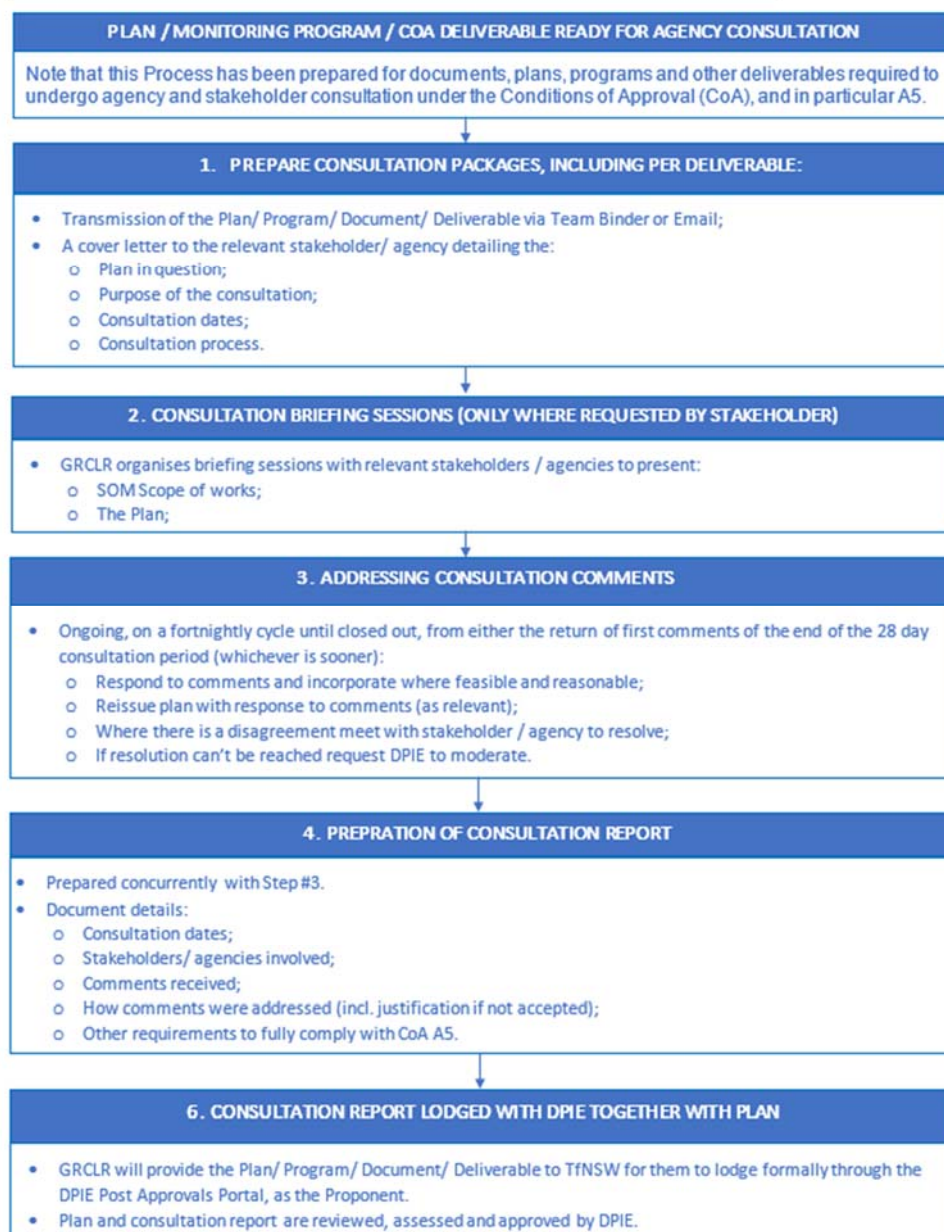


Figure 2: Consultation Process

2 Stakeholder / Agency Consultation

This Section of the Consultation Report provides detail of consultation undertaken with each stakeholder and agency in the preparation of the CEMP. In particular it contains:

A consultation log that identifies:

- Consultation dates (actual and attempted);
- Form of consultation;
- Whether responses and / or comments were received;
- Summary of the issues raised, including how they have been addressed;
- Justification for not addressing an issue raised.

Documentary evidence of all the correspondence received and sent through the consultation phase is contained in the Appendices at the end of this Report. The Appendices and this Section are broken down by Stakeholder / Agency not by issue.

2.1 Environment Protection Authority

Consultation with the EPA commenced on 28 May 2020 and concluded 25 June 2020.

Table 2 below includes the details of engagement between GRCLR and the EPA regarding the CEMP. Table 3, following, includes a summary of the issues raised, how those were addressed and closed out. Full evidence of correspondence is in Appendices A1 through A4 to this report.

Table 2: Engagement Log

#	Date	Correspondence		From	Recipient	Consultation Open / Closed
		Form / Type	Purpose			
1	28 May 2020	Team Binder	Initial request for stakeholder review and comment.	GRCLR	EPA	Open.
2	16 June 2020	Email	Response to request for comments – no comments.	EPA	GRCLR	Closed.

Table 3: Summary of Issues

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
Not applicable to EPA as no comments were provided.				

2.2 TfNSW Roads and Maritime

Consultation with the TfNSW RM commenced on 28 May 2020 and concluded 25 June 2020.

Table 4 below includes the details of engagement between GRCLR and the TfNSW RM regarding the CEMP. Table 5 following includes a summary of the issues raised, how those were addressed and closed out. Full evident of correspondence is in Appendix A2 to this report.

Table 4: RMS Engagement Log

#	Date	Correspondence		From	Recipient	Consultation Open / Closed
		Form / Type	Purpose			
1	28 May 2020	Team Binder	Initial request for stakeholder review and comment.	GRCLR	TfNSW RM	Open.
2	16 June 2020	Email	Response to request for comments – no comments.	TfNSW RM	GRCLR	Closed.

Table 5: TfNSW RM Summary of Issues

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
Not applicable to TfNSW RM as no comments were provided.				

2.3 Sydney Water

Consultation with the Sydney Water commenced on 28 May 2020 and concluded 25 June 2020.

Table 6 below includes the details of engagement between GRCLR and the Sydney Water regarding the CEMP. Table 7 following includes a summary of the issues raised, how those were addressed and closed out. Full evident of correspondence is in Appendix A3 to this report.

Table 6: Sydney Water Engagement Log

#	Date	Correspondence		From	Recipient	Consultation Open / Closed
		Form / Type	Purpose			
1	28 May 2020	Team Binder	Initial request for stakeholder review and comment.	GRCLR	Sydney Water	Open.
2	17 June 2020	Email	Response to request for comments – Three (3) comments were received and have been addressed as per Table 7 below.	Sydney Water	GRCLR	Open.
3	6 July 2020	Email.	GRCLR provided	GRCLR	Sydney	Open.

#	Date	Correspondence		From	Recipient	Consultation Open / Closed
		Form / Type	Purpose			
			response to comments from Sydney Water.		Water	
4	10 July 2020	Email.	Stakeholder confirmed comments closed for CEMP.	Sydney Water	GRCLR	Closed.

Table 7: Sydney Water Summary of Issues

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
Sub-Plans	Sub-plans were not provided for Sydney Water Review	17/6/2020	Addressed through provision of email correspondence (6/7/2020) to Sydney Water stating that the other sub-plans (as relevant to Sydney Water) will be provided for review when they have completed internal, Proponent and Environment Representative review.	Yes. Closed in correspondence 10 July 2020.
Sub-Plans	Flood Management has not been provided for Sydney Water Review.	17/6/2020	Addressed through provision of email correspondence (6/7/2020) to Sydney Water stating that the other sub-plans (as relevant to Sydney Water) will be provided for review when they have completed internal, Proponent and Environment Representative review.	Yes. Closed in correspondence 10 July 2020.
Trade Waste Agreement	A Trade Waste Agreement is being negotiated for the remediation site 6 Grand Avenue, Camellia which we would expect to be referenced in Section 3.4 Approvals, Permits & Licensing. At the	17/6/2020	Addressed through provision of email correspondence (6/7/2020) to Sydney Water stating that the Trade Waste Licence, and all matters relating to the remediation of the 6 Grand Avenue site, as the subject of the LTEMP which is still in draft form,	Yes. Closed in correspondence 10 July 2020.

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
	very least is it mentioned in the soil & water management plan. A copy of this plan would be required to confirm.		and the details of which are still being finalised. GRCLR confirmed that the LTEMP will be treated as a stand-alone document to be implemented concurrently with this CEMP and associated subplans, and will take precedence where required as it will be subject of sign-off and approval by an EPA registered Site Auditor.	

2.4 City of Parramatta Council

Consultation with the City of Parramatta Council (CoPC) commenced on 28 May 2020 and concluded 25 June 2020.

Table 8 below includes the details of engagement between GRCLR and the CoPC regarding the CEMP. Table 9 following includes a summary of the issues raised, how those were addressed and closed out. Full evidence of correspondence is in Appendix A4 to this report.

Table 8: CoPC Engagement Log

#	Date	Correspondence		From	Recipient	Consultation Open / Closed
		Form / Type	Purpose			
1	28 May 2020	Team Binder	Initial request for stakeholder review and comment.	GRCLR	CoPC	Open.
2	25 June 2020	Team Binder	Response to request for comments – Ten (10) comments were received and have been addressed as per Table 9 below.	CoPC	GRCLR	Open.
3	6 July 2020	Team Binder	GRCLR provided response to comments from CoPC (including tracking sheet).	GRCLR	CoPC	Open.
4	16 July 2020	Team Binder	Stakeholder confirmed comments closed for CEMP.	CoPC	GRCLR	Closed.

#	Date	Correspondence		From	Recipient	Consultation Open / Closed
		Form / Type	Purpose			
5	GRCLR	Team Binder	GRCLR provided letter correspondence closing CEMP consultation.	GRCLR	CoPC	Closed.

Table 9: CoPC: Summary of Issues

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
Incident Close Out; Auditing and Compliance Reporting	<p>Suggest a higher close out and attendance rate for inspections, incidents.</p> <p>Compliance reporting and auditing model is not clearly identified nor is a management model.</p> <p>Auditing approach, frequency and disclosure of performance should be identified and inclusive of all key government stakeholders inclusive of the CoP.</p>	25/6/2020	<p>This is a CSSI project. Incident notification, Auditing and compliance reporting are governed by DPIE, through the CoA, and the Proponent (TfNSW) through the deed.</p> <p>All incident reporting is managed by the CoA, but also, the POEO Act which requires that all affected stakeholders are notified immediately.</p> <p>The CEMP is consistent with these requirements, and CoPC does not have a role in the governance of these activities.</p> <p>The Project Wide Audit Program is currently the responsibility of TfNSW, and GRCLR must comply with its requirements under CoA A41, A42 and A43.</p>	<p>Yes.</p> <p>Closed in correspondence 16 July 2020.</p>

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
Design Changes	Confirm that value engineered or any other changes to project outcomes post AFC is communicated with COPC as a key stakeholder for any changes that affect COPC owned land or assets, and that a review and approval process is in place to ascertain its satisfaction with the proposed changes. Confirm this in reporting.	25/6/2020	<p>Addressed in correspondence (6/07/2020). No change made to CEMP as comment refers the design process, managed separately to the CEMP.</p> <p>AFC is the final design gate, marking the end of all design and value engineering activities.</p> <p>If any post AFC changes are required, this will be managed through the existing design process, and communication channels between CoPC, TfNSW and GRCLR, which include:</p> <ul style="list-style-type: none"> • Review of Design Packages; • Attendance as design Package Presentations; • Monthly executive meetings. 	<p>Yes.</p> <p>Closed in correspondence 16 July 2020.</p>
Asset Management	Include requirements to liaise with COPC regarding any item affecting COPC land or assets at all environmental and construction management levels.	25/6/2020	<p>Addressed in correspondence (6/07/2020). No change made to CEMP as asset management is managed separately to the CEMP.</p> <p>All communication and liaison for asset management, including construction and</p>	<p>Yes.</p> <p>Closed in correspondence 16 July 2020.</p>

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
			<p>O&M matters are to managed through the he existing communication channels between CoPC, TfNSW and GRCLR, which include:</p> <ul style="list-style-type: none"> • Construction Coordination Meeting (fortnightly); • Monthly executive meetings. 	
Project Wide Tree Impacts	<p>Confirm how this clause relates to the project wide tree register and list of trees nominated for removal for the project as whole. Confirm (within the report) that this clause does not permit removal of trees outside of the project wide tree removal permissions as nominated in the Tree Registers for Sections 1, 2 and 3.</p>	25/6/2020	<p>Addressed in correspondence (6/07/2020). No change made to CEMP as the detail requested is addressed in the FFMP, which is yet to be provided to CoPC for review and comment, separately to the CEMP.</p> <p>Note that GRCLR will not be impacting trees at the SaMF site (for which this CEMP has been prepared), and further is unlikely to impact trees at any other location along the alignment for the next revision of the CEMP.</p>	<p>Yes.</p> <p>Closed in correspondence 16 July 2020.</p>
Roles and Responsibilities	<p>CEMP should clearly identify accountability and responsibility for implementation and compliance. This should be inclusive from Project Director level to the Environmental Manager of individual sites. This</p>	25/6/2020	<p>Addressed in correspondence (6/07/2020). No change made to CEMP as CEMP contains the requested information, and is following the TfNSW</p>	<p>Yes.</p> <p>Closed in correspondence 16 July 2020.</p>

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
	should be a priority item in the Exec Summ and Body of the Report. Appended generic org charts provided do not clearly achieve this.		template, consistent with the other delivery packages.	
Monitoring	A process for site specific and project specific monitoring and controls needs to be identified to ensure local environmental risks and project specific hazards are dealt with appropriately. CoP requests review of these plans prior to implementation.	25/6/2020	<p>Addressed in correspondence (6/07/2020). No change made to CEMP as the CEMP includes the appropriate level of detail for a CEMP, with additional requirements addressed in subplans and monitoring programs that are yet to be provided to CoPC for review and comment, separately to the CEMP.</p> <p>Sub-plans and monitoring programs to be sent to CoPC include:</p> <ul style="list-style-type: none"> • Construction Flora and Fauna Management Plan; • Construction Heritage Management Plan; • Construction Flood Management Plan; • Construction Traffic, Transport and Access Management Plan; • Construction Noise and Vibration Management Plan; and • Construction Noise and Vibration 	Yes. Closed in correspondence 16 July 2020.

Aspect	Issue Raised	Date Raised	How Addressed / Justification Why Not Addressed	Stakeholder Satisfied / Issue Closed Out?
			<p>Monitoring Program.</p> <p>Note: The Monitoring Program for Grey-Headed Flying Fox has been prepared by TfNSW.</p>	

Appendix A1 – Environment Protection Authority

Anita Rylah

From: Warren Bottrill <system@teambinder.com> on behalf of Warren Bottrill
<warren.bottrill@greatrivercity.com.au>
Sent: Thursday, 28 May 2020 4:08 PM
To: Anita Rylah
Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request
Attachments: Project Plan _GRCLR Review Comments.xlsx

Document Transmittal



Project Number: PLRM **Transmittal No:** PLRM-GLR-EPA-TX-000001

Project Title: Parramatta Light Rail - Main Works

Date: 28 May 2020 04:06 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites the EPA to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only.


Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that the EPA provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Anita Rylah
Environment, Planning and Sustainability Manager

M +61 417630652 
E anita.rylah@greatrivercity.com.au

Warren Bottrill
Senior Commercial Manager/Temporary Contractors Representative
Great River City Light Rail
M: +61 418 882 378
E: warren.bottrill@greatrivercity.com.au
Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 24 June 2020

Transmitted to:

Company	Name
NSW Environmental Protection Authority (EPA)	Claire Miles

Transmitted cc:

Company	Name
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson
Great River City Light Rail Pty Ltd	Michael Watts

[Click here to download all Transmittal files.](#)

Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

TeamBinder Transmittal Reference: {17CF8CA8-F533-47CC-8983-7A212E0EC4D6}

Anita Rylah

From: Anita Rylah
Sent: Thursday, 11 June 2020 4:35 PM
To: Claire.Miles@epa.nsw.gov.au
Cc: Lia Camillos; Michael Watts; Joshua Jenkins; Sam Fard; Marc Richardson; Warren Bottrill; Johanna Maslem
Subject: Great River City Light Rail - Construction Environment Management Plan Consultation Request

Good Afternoon Claire,

In follow up on the transmittal (PLRM-GLR-RMS-TX-000003) of the GRCLR CEMP sent to yourself on 28 May 2020, GRCLR invited the Environment Protection Agency to provide comments on the GRCLR CEMP **by Thursday 25 June 2020.**

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact myself on the below details to discuss further.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

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E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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Anita Rylah

From: Nicola Campbell <Nicola.Campbell@epa.nsw.gov.au>
Sent: Tuesday, 16 June 2020 3:56 PM
To: Anita Rylah
Subject: FW: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Hello Anita,

I am now the primary contact for the EPA regarding the Paramatta Light Rail Project. James Boyle is currently the A/Unit Head for our team.

Thank you for forwarding the CEMP Construction Environment Management Plan for our records. The EPA encourages the development of such plans to ensure that proponents have determined how they will meet their statutory obligations and designated environmental objectives. However, it is not EPA policy to approve or endorse these documents. The EPA's role is to set environmental objectives/requirements for environmental management, rather than being directly involved in the development of strategies to achieve those objectives/requirements.

Thank you for your email and please do not hesitate to contact me should you wish to discuss.

Best Regards

Nicola Campbell

From: Warren Bottrill <system@teambinder.com> **On Behalf Of** Warren Bottrill
Sent: Tuesday, 16 June 2020 12:13 PM
To: Claire Miles <Claire.Miles@epa.nsw.gov.au>
Subject: RE: Great River City Light Rail - Construction Environmental Management Plan Consultation Request



16 June 2020, 12:12

Reference No.: **PLR-PLR1SOM-GLR-GLR-LETTER-000016**

Great River City Light Rail Pty Ltd

Attention: Warren Bottrill

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Good Afternoon Claire,

In follow up on the transmittal of the GRCLR CEMP sent to yourself on 28 May 2020, GRCLR invited the Environment Protection Agency to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact Anita Rylah on 0417 630 652 to discuss further.

Regards,
Warren Bottrill

Project Reference No: **PLR-PLR1SOM-GLR-GLR-LETTER-000016**

To: Warren Bottrill (GLR) ,
Cc: Alan Brittain (GLR) , Lia Camillo (GLR) , Mark Richardson (GLR) , Michael Watts (GLR) , PLR Document Controller (TFNSW) , Samaneh Fard (TFNSW) , Joshua Jenkins (GLR)

Great River City Light Rail Pty Ltd
ABN 622 239 605

----- Original Message -----

Document Transmittal



Project Number: PLRM

Transmittal No: PLRM-GLR-EPA-TX-000001

Project Title: Parramatta Light Rail - Main Works

Date: 28 May 2020 04:06 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites the EPA to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that the EPA provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Anita Rylah
Environment, Planning and Sustainability Manager

M +61 417630652

E anita.rylah@greatriverscity.com.au

Warren Bottrill
Senior Commercial Manager/Temporary Contractors Representative
Great River City Light Rail
M: +61 418 882 378
E: warren.bottrill@greatriverscity.com.au
Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 24 June 2020

Transmitted to:

Company	Name
NSW Environmental Protection Authority (EPA)	Claire Miles

Transmitted cc:

Company	Name
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson
Great River City Light Rail Pty Ltd	Michael Watts

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Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

TeamBinder mail reference: {3E4CE59F-C0B6-4A69-A89E-0C04619DF804}

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PLEASE CONSIDER THE ENVIRONMENT BEFORE PRINTING THIS EMAIL

Appendix A2 – NSW RMS

Anita Rylah

From: Warren Bottrill <system@teambinder.com> on behalf of Warren Bottrill
<warren.bottrill@greatrivercity.com.au>
Sent: Thursday, 28 May 2020 4:07 PM
To: Anita Rylah
Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request
Attachments: CEMP_Consultation Review Comments.xlsx

Document Transmittal



Project Number: PLRM **Transmittal No:** PLRM-GLR-RMS-TX-000003

Project Title: Parramatta Light Rail - Main Works

Date: 28 May 2020 04:05 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites RMS to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only. Please note, this CEMP has been issued to RMS previously as a requirement of the Roads Act Approval.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that RMS provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.


Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please forward this document to Matthew Rodgers, as his contact details are not available in Teambinder.

Anita Rylah

Environment, Planning and Sustainability Manager

M +61 417630652 
E anita.rylah@greatrivercity.com.au

Warren Bottrill
Senior Commercial Manager/Temporary Contractors Representative
Great River City Light Rail
M: +61 418 882 378

Please submit your comments by 25 June 2020

Transmitted to:

Company	Name
Roads and Maritime Services	Daryl Ninham

Transmitted cc:

Company	Name
Transport for NSW	Joekarl Diaz
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Roads and Maritime Services	RMS Integration
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson
Great River City Light Rail Pty Ltd	Michael Watts

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Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

TeamBinder Transmittal Reference: {86174ECD-317D-4432-8C47-9A28A14AEDB6}

Anita Rylah

From: Anita Rylah
Sent: Thursday, 11 June 2020 4:23 PM
To: Daryl Ninham
Cc: Lia Camillos; Michael Watts; Joshua Jenkins; Marc Richardson; Sam Fard; Joshua Jenkins; Warren Bottrill; Johanna Maslem; Joekarl.Diaz@transport.nsw.gov.au; matthew.rodgers2@rms.nsw.gov.au
Subject: Great River City Light Rail - Construction Environment Management Plan Consultation Request

Good Afternoon Darryl,

In follow up on the transmittal (PLRM-GLR-RMS-TX-000003) of the GRCLR CEMP sent to yourself on 28 May 2020, GRCLR invited RMS to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

We do acknowledge that you have been included in previous earlier versions/transmittals of the CEMP under the Roads Act requirements.

Please feel free to contact myself on the below details to discuss further.

Regards

ANITA RYLAH
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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General Correspondence

Reference No.: PLR-PLR1SOM-RMS-GLR-CORR-000009

Project Title: Parramatta Light Rail - Main Works

Date: 18 June 2020, 16:05

To: Warren Bottrill, Great River City Light Rail Pty Ltd

From: RMS Integration, Roads and Maritime Services

Subject: RE: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Good Afternoon

Thank you for the opportunity to review this document. We advise that do not have any comments.

Regards, PLR Network Integration

Design Pkg:

Contract / Program: Stage 1 Supply Operate and Maintain Contract

Discipline: Environmental

Location:

----- Original Message -----

Document Transmittal



Project Number: PLRM

Transmittal No: PLRM-GLR-RMS-TX-000003

Project Title: Parramatta Light Rail - Main Works

Date: 28 May 2020 04:05 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia. GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites RMS to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only. Please note, this CEMP has been issued to RMS previously as a requirement of the Roads Act Approval.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that RMS provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please forward this document to Matthew Rodgers, as his contact details are not available in Teambinder.

Anita Rylah

Environment, Planning and Sustainability Manager

M +61 417630652  

E anita.rylah@greatrivercity.com.au

Warren Bottrill

Senior Commercial Manager/Temporary Contractors Representative

Great River City Light Rail

M: +61 418 882 378

E: warren.bottrill@greatrivercity.com.au

Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 25 June 2020

Transmitted to:

Company	Name
Roads and Maritime Services	Daryl Ninham

Transmitted cc:

Company	Name
Transport for NSW	Joekarl Diaz
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Roads and Maritime Services	RMS Integration
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson
Great River City Light Rail Pty Ltd	Michael Watts

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Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

Appendix A3 – Sydney Water

Anita Rylah

From: Anita Rylah
Sent: Thursday, 28 May 2020 4:31 PM
To: ARTHUR.ANDRONOPOULOS@sydneywater.com.au
Cc: stephen.lewcock@transport.nsw.gov.au; GINA.NICHOLS@sydneywater.com.au; cassandra.loughlin@sydneywater.com.au; Lia Camillos; Mark Richardson; Michael Watts Ronald; Warren Bottrill; Alan Brittain
Subject: Great River City Light Rail - Construction Environment Management Plan - Consultation Request
Attachments: PLR-PLR1SOM-GLR-SWT-LETTER-000001_Consultation on the CEMP for SAMF (002).pdf; PLR1SOM-GLR-ALL-PM-PLN-000014.E.S2.E.01.pdf; Project Plan _GRCLR Review Comments.xlsx

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites Sydney Water to comment on the CEMP, included together with this letter. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that Sydney Water provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact myself on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please place your comments within the review spreadsheet provided.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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Anita Rylah

From: Anita Rylah
Sent: Wednesday, 10 June 2020 11:38 AM
To: BRUNET, LINDA
Cc: stephen.lewcock@transport.nsw.gov.au; GINA.NICHOLS@sydneywater.com.au; cassandra.loughlin@sydneywater.com.au; Lia Camillos; Mark Richardson; Michael Watts Ronald; Warren Bottrill; Alan Brittain; Sam Fard; Joshua Jenkins
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request
Attachments: PLR-PLR1SOM-GLR-SWT-LETTER-000001_Consultation on the CEMP for SAMF (002).pdf; PLR1SOM-GLR-ALL-PM-PLN-000014.E.S2.E.01.pdf; Project Plan _GRCLR Review Comments.xlsx

Good Morning Linda,

Just following up on my email forwarded to yourself by Arthur on 28 May 2020, where GRCLR invited Sydney Water to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact myself on details provided below to discuss further.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatriverscity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Anita Rylah
Sent: Thursday, 28 May 2020 4:31 PM
To: ARTHUR.ANDRONOPOULOS@sydneywater.com.au
Cc: stephen.lewcock@transport.nsw.gov.au; GINA.NICHOLS@sydneywater.com.au; cassandra.loughlin@sydneywater.com.au; Lia Camillos <lia.evangelia.pl@gmail.com>; Mark Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>
Subject: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites Sydney Water to comment on the CEMP, included together with this letter. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that Sydney Water provide comments on the GRCLR CEMP **by Thursday 25 June 2020.**

Please contact myself on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please place your comments within the review spreadsheet provided.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652

E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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Anita Rylah

From: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>
Sent: Wednesday, 17 June 2020 1:34 PM
To: Anita Rylah
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Hi Anita,

I hope you are well.

Sydney Water has reviewed the CEMP and we note the following:

- The CEMP is supported by a number of subplans, however none of these have been provided.
- Condition C3(c) of the CEMP notes that there is a requirement for a Flood Management Plan and that consultation with Sydney Water during the preparation of this plan is required. This sub plan needs to be provided so that it can be reviewed by Sydney Water.
- A Trade Waste Agreement is being negotiated for the remediation site 6 Grand Avenue, Camellia which we would expect to be referenced in Section 3.4 Approvals, Permits & Licensing. At the very least it is mentioned in the soil & water management plan. A copy of this plan would be required to confirm.

Regards,

Linda Brunet | Infrastructure Account Manager

City Growth & Development | Business Development Group
Sydney Water, Level 13, 1 Smith St Parramatta NSW 2150
T 02 8849 5283 M 0439 270 690

linda.brunet@sydneywater.com.au
sydneywater.com.au

From: Anita Rylah <anita.rylah@greatriverscity.com.au>
Sent: Wednesday, 10 June 2020 11:38 AM
To: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>
Cc: stephen.lewcock@transport.nsw.gov.au; NICHOLS, GINA <GINA.NICHOLS@sydneywater.com.au>; LOUGHLIN, CASSIE <CASSANDRA.LOUGHLIN@sydneywater.com.au>; Lia Camillos <lia.evangelia.pl@gmail.com>; Marc Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>; Sam Fard <Samaneh.Fard@transport.nsw.gov.au>; Joshua Jenkins <joshua.jenkins@greatriverscity.com.au>
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Morning Linda,

Just following up on my email forwarded to yourself by Arthur on 28 May 2020, where GRCLR invited Sydney Water to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact myself on details provided below to discuss further.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652

E anita.rylah@greatriverscity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Anita Rylah

Sent: Thursday, 28 May 2020 4:31 PM

To: ARTHUR.ANDRONOPOULOS@sydneywater.com.au

Cc: stephen.lewcock@transport.nsw.gov.au; GINA.NICHOLS@sydneywater.com.au; cassandra.loughlin@sydneywater.com.au; Lia Camillos <lia.evangelia.pl@gmail.com>; Mark Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>

Subject: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

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GRCLR invites Sydney Water to comment on the CEMP, included together with this letter. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that Sydney Water provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact myself on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please place your comments within the review spreadsheet provided.

Regards

ANITA RYLAH

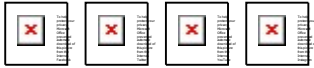
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



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From: Anita Rylah <anita.rylah@greatrivercity.com.au>
Sent: Monday, 6 July 2020 9:06 AM
To: BRUNET, LINDA
Cc: Joshua Jenkins; Lia Camillos; Michael Watts Ronald
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Dear Linda,

GRCLR thanks you for your correspondence and comments on our CEMP provided on 17 June 2020. In response to your comments we provide the following:

- GRCLR is still finalising the sub-plans associated with this overarching CEMP. Once these are finalised, reviewed by TfNSW and the project Environmental Representative, they will be provided (as relevant) to Sydney Water for review and comment. We anticipate this to be towards the middle to end of July 2020.
- GRCLR will provide the following to Sydney Water for review:
 - Construction Flood Management Plan required under CoA C3;
 - Construction Soil and Water Management Plan.
- With regards to the Trade Waste Licence, it is part of the remedial works for the 6 Grand Avenue site, and will be covered in the Long Term Management Plan (LTEMP) prepared for the site as part of the approvals required by the Site Auditor.
- All matters relating to the remediation of the 6 Grand Avenue site, as the subject of the LTEMP which is still in draft form, and the details of which are still being finalised, and are the remit of the Remediation Contractor which is currently managing the remediation and meeting the requirements of the Auditor.
- GRCLR can confirm that the LTEMP will be treated as a stand-alone document to be implemented by GRCLR concurrently with this CEMP and associated subplans (see section 1.1.4 of CEMP), and will take precedence where required as it will be subject of sign-off and approval by an EPA registered Site Auditor.

Can Sydney Water please confirm that you have no comments on the CEMP itself and are satisfied that with the provision of the other plans discussed above these comments are closed?

If you have any questions please give me a call.

Regards

ANITA RYLAH
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>
Sent: Wednesday, 17 June 2020 1:34 PM

To: Anita Rylah <anita.rylah@greatriverscity.com.au>

Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Hi Anita,

I hope you are well.

Sydney Water has reviewed the CEMP and we note the following:

- The CEMP is supported by a number of subplans, however none of these have been provided.
- Condition C3(c) of the CEMP notes that there is a requirement for a Flood Management Plan and that consultation with Sydney Water during the preparation of this plan is required. This sub plan needs to be provided so that it can be reviewed by Sydney Water.
- A Trade Waste Agreement is being negotiated for the remediation site 6 Grand Avenue, Camellia which we would expect to be referenced in Section 3.4 Approvals, Permits & Licensing. At the very least it is mentioned in the soil & water management plan. A copy of this plan would be required to confirm.

Regards,

Linda Brunet | Infrastructure Account Manager

City Growth & Development | Business Development Group
Sydney Water, Level 13, 1 Smith St Parramatta NSW 2150
T 02 8849 5283 M 0439 270 690

linda.brunet@sydneywater.com.au
sydneywater.com.au

From: Anita Rylah <anita.rylah@greatriverscity.com.au>

Sent: Wednesday, 10 June 2020 11:38 AM

To: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>

Cc: stephen.lewcock@transport.nsw.gov.au; NICHOLS, GINA <GINA.NICHOLS@sydneywater.com.au>; LOUGHLIN, CASSIE <CASSANDRA.LOUGHLIN@sydneywater.com.au>; Lia Camillos <lia.evangelia.pl@gmail.com>; Marc Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>; Sam Fard <Samaneh.Fard@transport.nsw.gov.au>; Joshua Jenkins <joshua.jenkins@greatriverscity.com.au>

Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Morning Linda,

Just following up on my email forwarded to yourself by Arthur on 28 May 2020, where GRCLR invited Sydney Water to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact myself on details provided below to discuss further.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatriverscity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Anita Rylah
Sent: Thursday, 28 May 2020 4:31 PM
To: ARTHUR.ANDRONOPOULOS@sydneywater.com.au
Cc: stephen.lewcock@transport.nsw.gov.au; GINA.NICHOLS@sydneywater.com.au; cassandra.loughlin@sydneywater.com.au; Lia Camillos <lia.evangelia.pl@gmail.com>; Mark Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>
Subject: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites Sydney Water to comment on the CEMP, included together with this letter. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that Sydney Water provide comments on the GRCLR CEMP **by Thursday 25 June 2020.**

Please contact myself on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please place your comments within the review spreadsheet provided.

Regards

ANITA RYLAH

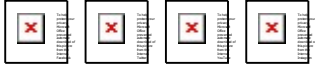
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatriverscity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>
Sent: Friday, 10 July 2020 9:01 AM
To: Anita Rylah
Cc: Joshua Jenkins; Lia Camillos; Michael Watts Ronald; NICHOLS, GINA
Subject: Re: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Hi Anita,

Thank you for your email. We look forward to reviewing the subplans and documentation (outlined below) in due course. We have no further comments on the CEMP itself.

Regards

Linda Brunet

Sent from my Samsung Galaxy A5 (2017) on the Telstra Mobile Network

----- Original message -----

From: Anita Rylah <anita.rylah@greatriverscity.com.au>
Date: 6/7/20 9:06 am (GMT+10:00)
To: "BRUNET, LINDA" <LINDA.BRUNET@sydneywater.com.au>
Cc: Joshua Jenkins <joshua.jenkins@greatriverscity.com.au>, Lia Camillos <lia.evangelia.pl@gmail.com>, Michael Watts Ronald <mwatts@caf.net>
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Dear Linda,

GRCLR thanks you for your correspondence and comments on our CEMP provided on 17 June 2020. In response to your comments we provide the following:

- GRCLR is still finalising the sub-plans associated with this overarching CEMP. Once these are finalised, reviewed by TfNSW and the project Environmental Representative, they will be provided (as relevant) to Sydney Water for review and comment. We anticipate this to be towards the middle to end of July 2020.
- GRCLR will provide the following to Sydney Water for review:
 - Construction Flood Management Plan required under CoA C3;
 - Construction Soil and Water Management Plan.
- With regards to the Trade Waste Licence, it is part of the remedial works for the 6 Grand Avenue site, and will be covered in the Long Term Management Plan (LTEMP) prepared for the site as part of the approvals required by the Site Auditor.
- All matters relating to the remediation of the 6 Grand Avenue site, as the subject of the LTEMP which is still in draft form, and the details of which are still being finalised, and are the remit of the Remediation Contractor which is currently managing the remediation and meeting the requirements of the Auditor.
- GRCLR can confirm that the LTEMP will be treated as a stand-alone document to be implemented by GRCLR concurrently with this CEMP and associated subplans (see section 1.1.4 of CEMP), and will take precedence where required as it will be subject of sign-off and approval by an EPA registered Site Auditor.

Can Sydney Water please confirm that you have no comments on the CEMP itself and are satisfied that with the provision of the other plans discussed above these comments are closed?

If you have any questions please give me a call.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>
Sent: Wednesday, 17 June 2020 1:34 PM
To: Anita Rylah <anita.rylah@greatrivercity.com.au>
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Hi Anita,

I hope you are well.

Sydney Water has reviewed the CEMP and we note the following:

- The CEMP is supported by a number of subplans, however none of these have been provided.
- Condition C3(c) of the CEMP notes that there is a requirement for a Flood Management Plan and that consultation with Sydney Water during the preparation of this plan is required. This sub plan needs to be provided so that it can be reviewed by Sydney Water.
- A Trade Waste Agreement is being negotiated for the remediation site 6 Grand Avenue, Camellia which we would expect to be referenced in Section 3.4 Approvals, Permits & Licensing. At the very least it is mentioned in the soil & water management plan. A copy of this plan would be required to confirm.

Regards,

Linda Brunet | Infrastructure Account Manager
City Growth & Development | Business Development Group
Sydney Water, Level 13, 1 Smith St Parramatta NSW 2150
T 02 8849 5283 M 0439 270 690
linda.brunet@sydneywater.com.au
sydneywater.com.au

From: Anita Rylah <anita.rylah@greatrivercity.com.au>
Sent: Wednesday, 10 June 2020 11:38 AM
To: BRUNET, LINDA <LINDA.BRUNET@sydneywater.com.au>
Cc: stephen.lewcock@transport.nsw.gov.au; NICHOLS, GINA <GINA.NICHOLS@sydneywater.com.au>; LOUGHLIN, CASSIE <CASSANDRA.LOUGHLIN@sydneywater.com.au>; Lia Camillos <lia.evangelia.pl@gmail.com>; Marc

Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>; Sam Fard <Samaneh.Fard@transport.nsw.gov.au>; Joshua Jenkins <joshua.jenkins@greatriverscity.com.au>
Subject: RE: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Morning Linda,

Just following up on my email forwarded to yourself by Arthur on 28 May 2020, where GRCLR invited Sydney Water to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact myself on details provided below to discuss further.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatriverscity.com.au



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Cc: stephen.lewcock@transport.nsw.gov.au; GINA.NICHOLS@sydneywater.com.au; cassandra.loughlin@sydneywater.com.au; Lia Camillos <lia.evangelia.pl@gmail.com>; Mark Richardson <mrichardson@caf.net>; Michael Watts Ronald <mwatts@caf.net>; Warren Bottrill <Warren.Bottrill@greatriverscity.com.au>; Alan Brittain <alan.brittain@greatriverscity.com.au>
Subject: Great River City Light Rail - Construction Environment Management Plan - Consultation Request

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites Sydney Water to comment on the CEMP, included together with this letter. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that Sydney Water provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact myself on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Please place your comments within the review spreadsheet provided.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652

E anita.rylah@greatrivercity.com.au



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Appendix A4 – City of Parramatta Council

Anita Rylah

From: Warren Bottrill <system@teambinder.com> on behalf of Warren Bottrill
<warren.bottrill@greatrivercity.com.au>
Sent: Thursday, 28 May 2020 4:07 PM
To: Anita Rylah
Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request
Attachments: Project Plan _GRCLR Review Comments.xlsx

Document Transmittal



Project Number: PLRM **Transmittal No:** PLRM-GLR-COP-TX-000003

Project Title: Parramatta Light Rail - Main Works

Date: 28 May 2020 04:06 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia. GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites the City of Parramatta Council to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only.


Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.

GRCLR requests that the City of Parramatta Council provide comments on the GRCLR CEMP **by Thursday 25 June 2020**. Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Anita Rylah

Environment, Planning and Sustainability Manager

M +61 417630652 

E anita.rylah@greatrivercity.com.au

Warren Bottrill

Senior Commercial Manager/Temporary Contractors Representative
Great River City Light Rail

M: +61 418 882 378

E: warren.bottrill@greatrivercity.com.au

Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 25 June 2020

Transmitted to:

Company	Name
City of Parramatta	Anthony Newland

Transmitted cc:

Company	Name
Transport for NSW	Walter Casu
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson

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Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

TeamBinder Transmittal Reference: {B0B2586E-1D13-4D94-B9E1-BFEBDBCD3FF9}

Anita Rylah

From: Anita Rylah
Sent: Thursday, 11 June 2020 4:30 PM
To: Anthony Newland
Cc: Michael Watts; Joshua Jenkins; Lia Camillos; Marc Richardson; Sam Fard; Warren Bottrill; Johanna Maslem; Walter.Casu@transport.nsw.gov.au
Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Good Afternoon Anthony,

In follow up on the transmittal (PLRM-GLR-RMS-TX-000003) of the GRCLR CEMP sent to yourself on 28 May 2020, GRCLR invited City of Parramatta to provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Do you intend to review and provide comments on the GRCLR CEMP by 25 June 2020?

Please feel free to contact myself on the below details to discuss further.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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25 June 2020, 14:57

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

Great River City Light Rail Pty Ltd

Attention: Warren Bottrill

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Request

Hi Warren

City of Parramatta Council refer to the GRCLR Transmittal Ref PLRM-GLR-COP-TX-000003 dated 28 May below, and invitation to comment on Construction Environmental Management Plan (CEMP) for the construction of the SaMF site due by 25 June 2020.

Please find attached Comments Register in response to GRCLR CEMP, document PLR1SOM-GLR-ALL-PM-PLN-000014, Rev E.

Regards

Ian Taylor
Senior Engineering & Project Manager
(02) 9806 8484

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au

Project Reference No: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

To: Warren Bottrill (GLR) ,
Cc: Walter Casu (TFNSW) , Alan Brittain (GLR) , Anita Rylah (GLR) , Lia Camillo (GLR) , Mark Richardson (GLR)
, PLR Document Controller (TFNSW) , Judy Chan (APP)

City of Parramatta

----- Original Message -----

Document Transmittal

**Project Number:** PLRM**Transmittal No:** PLRM-GLR-COP-TX-000003**Project Title:** Parramatta Light Rail - Main Works**Date:** 28 May 2020 04:06 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites the City of Parramatta Council to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.




GRCLR requests that the City of Parramatta Council provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Anita Rylah

Environment, Planning and Sustainability Manager

M +61 417630652   

E anita.rylah@greatrivercity.com.au

Warren Bottrill

Senior Commercial Manager/Temporary Contractors Representative

Great River City Light Rail

M: +61 418 882 378

E: warren.bottrill@greatrivercity.com.au

Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 25 June 2020

Transmitted to:

Company	Name
City of Parramatta	Anthony Newland

Transmitted cc:

Company	Name
Transport for NSW	Walter Casu
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson

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Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

Attachments
CEMP for SaMF_CoPC Comments.xlsx (49 KB)

16 July 2020, 17:46

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

Great River City Light Rail Pty Ltd

Attention: Anita Rylah

**Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Response**

Hi Anita and Warren

City of Parramatta has inspected GRCLR responses to CoPC comments and has no further comments to offer in reply, having regard to our reasons below as observations overall;

- Regrettably while CoPC offered a level of detail on the content, there was no apparent recognition/ acknowledgment, and CoPC felt that responses were returned with standard reply's.
- That based on responses there appears to be no/little effort and unwillingness to make amendments in what CoPC feels was important for a CEMP.

Whilst CoPC acknowledge a meeting is offered to discuss any outstanding issues, we respectfully decline.

Regards

Ian Taylor
Senior Engineering & Project Manager
(02) 9806 8484

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au

Project Reference No: **PLR-PLR1SOM-COP-GLR-LETTER-000010**

To: Anita Rylah (GLR)

Cc: Joshua Jenkins (GLR) , Michael Watts (GLR) , Lia Camillo (GLR) , Walter Casu (TFNSW) , PLR Document Controller (TFNSW) , Anthony Newland (COP)

City of Parramatta

----- Original Message -----



General Correspondence

Reference No.: **PLR-PLR1SOM-GLR-COP-CORR- 000017** Originator's Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

Project Title: Parramatta Light Rail - Main Works

Date: 14 July 2020, 11:10

To: Ian Taylor, City of Parramatta

Cc: Joshua Jenkins, Great River City Light Rail Pty Ltd
Michael Watts, Great River City Light Rail Pty Ltd
Lia Camillo, Great River City Light Rail Pty Ltd
Walter Casu, Transport for NSW

From: Anita Rylah, Great River City Light Rail Pty Ltd

Subject: **Great River City Light Rail - Construction Environmental Management Plan Consultation Response**

Morning Ian,

I am following up in regard to the below correspondence sent to yourself on the 9 July 2020.

Do you have any further queries from the responses sent in regard to GRCLR Construction Environment Management Plan?

Design Pkg:	Contract / Program: Stage 1 Supply Operate and Maintain Contract
Discipline: Environmental	Location:

Attachments: LETTER-PLR-PLR1SOM-COP-GLR-LETTER-000007-CEMP for SaMF_CoPC Comments.xlsx

If you have any further queries or would like to meet to discuss any outstanding concerns then please feel free to call me on 0417 630 652.

Regards,

Anita Rylah

Attachments: LETTER-PLR-PLR1SOM-COP-GLR-LETTER-000007-CEMP for SaMF_CoPC Comments.xlsx

----- Original Message -----



09 July 2020, 08:52

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

City of Parramatta

Attention: Ian Taylor

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Response

Dear Ian,

Thank you for taking the time to review the CEMP document for the SOM scope of works (25 June 2020).

GRCLR has provided response to each of these comments in the attached comments register. By way of summary of key items raised, GRCLR can confirm this CEMP:

- Has been prepared as an overarching management plan, under which there will be a series of sub-plans (currently under preparation) which will provide additional detail requested in some of CoPC comments. The sub-plans, as relevant, will be provided to CoPC for review and comment as a single package once they have been through internal, Proponent (TFNSW) and Environmental Representative (ER) review.
- Has been prepared to be compliant with the CSSI approval, CoA and deed requirements. It has been reviewed by the ER, to ensure that it meets the requirements as relevant to the SOM scope, within the CSSI planning approvals regime.
- Is not the governing document for management of:
 - Design process;
 - Asset management, and land access; or
 - Operational and maintenance processes and procedures. These are all managed separately to the CEMP through other existing processes, procedures and communications avenues. These will remain unchanged, and are unaffected by the CEMP which relates only to construction management.

GRCLR is happy to organise a meeting to discuss any outstanding concerns CoPC might have.

Please consider the above, and attached, and contact Anita Rylah (0417630652), if you would like to discuss any of the content.

Kind regards,
Warren Bottrill

Project Reference No: **PLR-PLR1SOM-GLR-COP-LETTER-000003**

To: Ian Taylor (COP) ,
Cc: Judy Chan (APP) , Lia Camillo (GLR) , Walter Casu (TFNSW) , Mark Richardson (GLR) , PLR Document Controller (TFNSW) , Andy England (GLR) , Joshua Jenkins (GLR) , Michael Watts (GLR)

Great River City Light Rail Pty Ltd
ABN 622 239 605

----- Original Message -----

25 June 2020, 14:57

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

Great River City Light Rail Pty Ltd

Attention: Warren Bottrill

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Hi Warren

City of Parramatta Council refer to the GRCLR Transmittal Ref PLRM-GLR-COP-TX-000003 dated 28 May below, and invitation to comment on Construction Environmental Management Plan (CEMP) for the construction of the SaMF site due by 25 June 2020.

Please find attached Comments Register in response to GRCLR CEMP, document PLR1SOM-GLR-ALL-PM-PLN-000014, Rev E.

Regards

Ian Taylor
Senior Engineering & Project Manager
(02) 9806 8484

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au

Project Reference No: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

To: Warren Bottrill (GLR) ,
Cc: Walter Casu (TFNSW) , Alan Brittain (GLR) , Anita Rylah (GLR) , Lia Camillo (GLR) , Mark Richardson (GLR) , PLR Document Controller (TFNSW) , Judy Chan (APP)

City of Parramatta

----- Original Message -----

Document Transmittal



Project Number:	PLRM	Transmittal No:	PLRM-GLR-COP-TX-000003
Project Title:	Parramatta Light Rail - Main Works		
Date:	28 May 2020 04:06 PM		
Subject:	Great River City Light Rail - Construction Environmental Management Plan Consultation Request		
Reason for Issue:	Issued For Review		
Message:			

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites the City of Parramatta Council to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.



GRCLR requests that the City of Parramatta Council provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Anita Rylah

Environment, Planning and Sustainability Manager

M +61 417630652  

E anita.rylah@greatriverscity.com.au

Warren Bottrill

Senior Commercial Manager/Temporary Contractors Representative

Great River City Light Rail

M: +61 418 882 378

E: warren.bottrill@greatriverscity.com.au

Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 25 June 2020

Transmitted to:

Company	Name
City of Parramatta	Anthony Newland

Transmitted cc:

Company	Name
Transport for NSW	Walter Casu
Great River City Light Rail Pty Ltd	Alan Brittain
Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson

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Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-	E	S2	Construction	PLR-SOM-GLR-PJT-	

	PLN-000014			Environmental Management Plan	PM-PLN-00014	
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Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd



31 July 2020, 10:57

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

City of Parramatta

Attention: Ian Taylor

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Response

Dear Ian,

Thank you for your close out of comments. We appreciate the efforts that CoPC has gone to in reviewing the CEMP, and would like to offer the following additional information in response:

- The CEMP the overarching document for environmental management through construction phase of GRCLR works, and much of the detail CoPC asked for will be provided in sub-plans which will be provided as a single package for review by CoPC. The package will include:
 - Construction Flora and Fauna Management Plan (which includes the GRCLR approach to tree management in accordance with the Project Wide TfNSW Tree Management Procedure);
 - Construction Heritage Management Plan;
 - Construction Flood Management Plan;
 - Construction Traffic, Transport and Access Management Plan;
 - Construction Noise and Vibration Management Plan;
 - Construction Noise and Vibration Monitoring Program; and
 - Construction Soil and Water Management Plan.
- GRCLR is required to comply with the auditing requirements which have been set in the Project Wide Auditing Program prepared by TfNSW, which all packages are required to implement and comply with, to ensure consistency across the project. The Auditing Program can be found on the TfNSW PLR Website. In regards to incident reporting, we will be bound by the requirements of the POEO Act which require all affected stakeholders (including CoPC) are notified immediately.
- The CEMP has no bearing on the existing process in place for design review process or asset management interface. The existing forums will continue, and communications channels will remain unchanged. Current forums and interface include such things as (note this is not an exhaustive list):
 - Council review of Design Packages;
 - Council attendance at:
 - Design Package Presentations;
 - Construction Coordination Meeting (fortnightly);
 - Urban Design Meetings; and
 - Monthly Executive Meetings.

GRCLR will be sending through the remainder of the environmental construction management plan package in the coming weeks for CoPC consideration.

If you would like to discuss any of the above please give me a call on my below contact details.

Kind regards,
Anita Rylah.
0417630652

To: Ian Taylor (COP)

Cc: Anthony Newland (COP) , Joshua Jenkins (GLR) , Michael Watts (GLR) , Lia Camillo (GLR) , Walter Casu (TFNSW) , PLR Document Controller (TFNSW) , Samaneh Fard (TFNSW) , Annabelle Tungol (APP) , Gillian Lehn (APP)

Great River City Light Rail Pty Ltd
ABN 622 239 605

----- Original Message -----

16 July 2020, 17:46

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

Great River City Light Rail Pty Ltd

Attention: Anita Rylah

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Response

Hi Anita and Warren

City of Parramatta has inspected GRCLR responses to CoPC comments and has no further comments to offer in reply, having regard to our reasons below as observations overall;

- Regrettably while CoPC offered a level of detail on the content, there was no apparent recognition/ acknowledgment, and CoPC felt that responses were returned with standard reply's.
- That based on responses there appears to be no/little effort and unwillingness to make amendments in what CoPC feels was important for a CEMP.

Whilst CoPC acknowledge a meeting is offered to discuss any outstanding issues, we respectfully decline.

Regards

Ian Taylor
Senior Engineering & Project Manager
(02) 9806 8484

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au

Project Reference No: **PLR-PLR1SOM-COP-GLR-LETTER-000010**

To: Anita Rylah (GLR)

Cc: Joshua Jenkins (GLR) , Michael Watts (GLR) , Lia Camillo (GLR) , Walter Casu (TFNSW) , PLR Document Controller (TFNSW) , Anthony Newland (COP)

City of Parramatta

----- Original Message -----



General Correspondence

Reference No.: PLR-PLR1SOM-GLR-COP-CORR-000017 **Originator's Reference No.:** PLR-PLR1SOM-COP-GLR-LETTER-000007

Project Title: Parramatta Light Rail - Main Works

Date: 14 July 2020, 11:10

To: Ian Taylor, City of Parramatta

Cc: Joshua Jenkins, Great River City Light Rail Pty Ltd
Michael Watts, Great River City Light Rail Pty Ltd
Lia Camillo, Great River City Light Rail Pty Ltd
Walter Casu, Transport for NSW

From: Anita Rylah, Great River City Light Rail Pty Ltd

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Response

Morning Ian,

I am following up in regard to the below correspondence sent to yourself on the 9 July 2020.

Do you have any further queries from the responses sent in regard to GRCLR Construction Environment Management Plan?

Design Pkg:

Contract / Program: Stage 1 Supply Operate and Maintain Contract

Discipline: Environmental

Location:

Attachments: LETTER-PLR-PLR1SOM-COP-GLR-LETTER-000007-CEMP for SaMF_CoPC Comments.xlsx

If you have any further queries or would like to meet to discuss any outstanding concerns then please feel free to call me on 0417 630 652.

Regards,

Anita Rylah

Attachments: LETTER-PLR-PLR1SOM-COP-GLR-LETTER-000007-CEMP for SaMF_CoPC Comments.xlsx

----- Original Message -----



09 July 2020, 08:52

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

City of Parramatta

Attention: Ian Taylor

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Response

Dear Ian,

Thank you for taking the time to review the CEMP document for the SOM scope of works (25 June 2020).

GRCLR has provided response to each of these comments in the attached comments register. By way of summary of key items raised, GRCLR can confirm this CEMP:

- Has been prepared as an overarching management plan, under which there will be a series of sub-plans (currently under preparation) which will provide additional detail requested in some of CoPC comments. The sub-plans, as relevant, will be provided to CoPC for review and comment as a single package once they have been through internal, Proponent (TfNSW) and Environmental Representative (ER) review.
- Has been prepared to be compliant with the CSSI approval, CoA and deed requirements. It has been reviewed by the ER, to ensure that it meets the requirements as relevant to the SOM scope, within the CSSI planning approvals regime.
- Is not the governing document for management of:
 - Design process;
 - Asset management, and land access; or
 - Operational and maintenance processes and procedures. These are all managed separately to the CEMP through other existing processes, procedures and communications avenues. These will remain unchanged, and are unaffected by the CEMP which relates only to construction management.

GRCLR is happy to organise a meeting to discuss any outstanding concerns CoPC might have.

Please consider the above, and attached, and contact Anita Rylah (0417630652), if you would like to discuss any of the content.

Kind regards,
Warren Bottrill

Project Reference No: **PLR-PLR1SOM-GLR-COP-LETTER-000003**

To: Ian Taylor (COP) ,
Cc: Judy Chan (APP) , Lia Camillo (GLR) , Walter Casu (TFNSW) , Mark Richardson (GLR) , PLR Document Controller

Great River City Light Rail Pty Ltd
ABN 622 239 605

----- Original Message -----

25 June 2020, 14:57

Reference No.: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

Great River City Light Rail Pty Ltd

Attention: Warren Bottrill

Project Name Parramatta Light Rail - Main Works
RE: Great River City Light Rail - Construction Environmental
Management Plan Consultation Request

Hi Warren

City of Parramatta Council refer to the GRCLR Transmittal Ref PLRM-GLR-COP-TX-000003 dated 28 May below, and invitation to comment on Construction Environmental Management Plan (CEMP) for the construction of the SaMF site due by 25 June 2020.

Please find attached Comments Register in response to GRCLR CEMP, document PLR1SOM-GLR-ALL-PM-PLN-000014, Rev E.

Regards

Ian Taylor
Senior Engineering & Project Manager
(02) 9806 8484

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au

Project Reference No: **PLR-PLR1SOM-COP-GLR-LETTER-000007**

To: Warren Bottrill (GLR) ,
Cc: Walter Casu (TFNSW) , Alan Brittain (GLR) , Anita Rylah (GLR) , Lia Camillo (GLR) , Mark Richardson (GLR)
, PLR Document Controller (TFNSW) , Judy Chan (APP)

City of Parramatta

----- Original Message -----

Document
Transmittal



Project Number: PLRM **Transmittal No:** PLRM-GLR-COP-TX-000003

Project Title: Parramatta Light Rail - Main Works

Date: 28 May 2020 04:06 PM

Subject: Great River City Light Rail - Construction Environmental Management Plan Consultation Request

Reason for Issue: Issued For Review

Message:

Good Afternoon,

Great River City Light Rail (GRCLR) has been engaged by TfNSW to design and construct a portion of the Parramatta Light Rail (PLR) Project, including the Stabling and Maintenance Facility (SaMF) at 6 Grand Avenue Camellia.

GRCLR has prepared the Construction Environmental Management Plan (CEMP) required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5 are required to undertake consultation with key Stakeholders.

GRCLR invites the City of Parramatta Council to comment on the CEMP, included together with this transmittal. The CEMP presented is for the construction of the SaMF site only.

Please note: a revised CEMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment, as these are dependent on completion of the Infrastructure Contractor (Parramatta Connect) works.



GRCLR requests that the City of Parramatta Council provide comments on the GRCLR CEMP **by Thursday 25 June 2020**.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding this CEMP.

It is of utmost importance that we receive your comments within the above timeframe, or at least confirmation that you will or will not be providing comments on this plan.

Anita Rylah

Environment, Planning and Sustainability Manager

M +61 417630652  

E anita.rylah@greatrivercity.com.au

Warren Bottrill

Senior Commercial Manager/Temporary Contractors Representative

Great River City Light Rail

M: +61 418 882 378

E: warren.bottrill@greatrivercity.com.au

Level 1, 31 Macquarie Street, Parramatta NSW 2150 Australia

Please submit your comments by 25 June 2020

Transmitted to:

Company	Name
City of Parramatta	Anthony Newland

Transmitted cc:

Company	Name
Transport for NSW	Walter Casu
Great River City Light Rail Pty Ltd	Alan Brittain

Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Mark Richardson

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Click on Document Nos to download them individually.

Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-PM-PLN-000014	E	S2	Construction Environmental Management Plan	PLR-SOM-GLR-PJT-PM-PLN-00014	

Transmitted by: Warren Bottrill, Great River City Light Rail Pty Ltd

Anita Rylah

From: Sandra Martin <SMartin@cityofparramatta.nsw.gov.au>
Sent: Wednesday, 19 August 2020 2:41 PM
To: Anita Rylah
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

Hi Anita

I just had a chat with Ian and can confirm that our Environmental Specialist have no further comments and you can close out the GRCLR Environment Management Plan.

Thanks Anita

Kind regards

Sandra Martin
Project Officer - Parramatta Light Rail
(02) 9806 5732

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au



I acknowledge the Traditional Owners of the land I work on, the Darug Peoples, and pay my respects to their Elders past and present.

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From: Anita Rylah <anita.rylah@greatriverscity.com.au>
Sent: Wednesday, 19 August 2020 1:43 PM
To: Sandra Martin <SMartin@cityofparramatta.nsw.gov.au>
Cc: Joshua Jenkins <joshua.jenkins@greatriverscity.com.au>; Lia Camillos <lia.evangelia.pl@gmail.com>
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

***[EXTERNAL EMAIL] Stop and think before opening attachments, clicking on links or responding. ***

Afternoon Sandra,

Did you manage to have a chat to Ian for me – regarding confirmation of close out of comments now on the Environmental Management Plan sent through before the subplans?

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Anita Rylah
Sent: Tuesday, 18 August 2020 4:12 PM
To: Sandra Martin <SMartin@cityofparramatta.nsw.gov.au>
Cc: Ian Taylor <ITaylor@cityofparramatta.nsw.gov.au>
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

Sandra,

I have sent the transmittal again, hopefully you don't have any problems with downloading from that.

If you do give me a call and we can get them to you another way.

Regards

ANITA RYLAH

Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Sandra Martin <SMartin@cityofparramatta.nsw.gov.au>
Sent: Tuesday, 18 August 2020 3:57 PM
To: Anita Rylah <anita.rylah@greatrivercity.com.au>
Cc: Ian Taylor <ITaylor@cityofparramatta.nsw.gov.au>
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

Hi Anita

I am responsible for downloading the packages and it appears that due to the many packages, some with similar names, I may have confused some of the reports when I have saved them.

Can you please re-send me the plans you are referring to below.

Kind regards

Sandra Martin
Project Officer - Parramatta Light Rail
(02) 9806 5732

City of Parramatta
Level 11, 126 Church Street, Parramatta NSW 2150
PO Box 32, Parramatta, NSW 2124
cityofparramatta.nsw.gov.au



I acknowledge the Traditional Owners of the land I work on, the Darug Peoples, and pay my respects to their Elders past and present.

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From: Anita Rylah <anita.rylah@greatrivercity.com.au>
Sent: Tuesday, 18 August 2020 3:51 PM
To: Ian Taylor <ITaylor@cityofparramatta.nsw.gov.au>
Cc: Sandra Martin <SMartin@cityofparramatta.nsw.gov.au>
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

***[EXTERNAL EMAIL] Stop and think before opening attachments, clicking on links or responding. ***

Ian,

That is absolutely correct, I am not asking for responses on the subplans.

I was wondering if you were now happy to close out the plan I sent you previously – the Construction Environment Management Plan.

Regards

ANITA RYLAH
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au

Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Ian Taylor <ITaylor@cityofparramatta.nsw.gov.au>
Sent: Tuesday, 18 August 2020 3:49 PM
To: Anita Rylah <anita.rylah@greatrivercity.com.au>
Cc: Sandra Martin <SMartin@cityofparramatta.nsw.gov.au>
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

Hi Anita

Based on the Transmittal correspondence we advised staff to return comments by Wednesday prior to meet you timeline indicated as **Thursday 3rd September 2020 (highlighted in Yellow below).**

Regards

Ian

From: Anita Rylah <anita.rylah@greatrivercity.com.au>
Sent: Tuesday, 18 August 2020 3:16 PM
To: Ian Taylor <ITaylor@cityofparramatta.nsw.gov.au>
Cc: Anthony Newland <ANewland@cityofparramatta.nsw.gov.au>; Lia Camillos <lia.evangelia.pl@gmail.com>; Joshua Jenkins <joshua.jenkins@greatrivercity.com.au>; Michael Watts Ronald <mwatts@caf.net>
Subject: RE: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

*****[EXTERNAL EMAIL] Stop and think before opening attachments, clicking on links or responding. *****

Hi Ian,

Just touching base again with you regarding the below correspondence. Are you ok to close out the comments on the GRCLR Environment Management Plan, now you are in receipt of the subplans for review and comment?

Please also give me a call if you would like an overview, or to discuss any of the content in the subplans we have sent through for CoPC review.

Regards

ANITA RYLAH
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au

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From: Anita Rylah
Sent: Tuesday, 11 August 2020 11:05 AM
To: Ian Taylor <ITaylor@cityofparramatta.nsw.gov.au>
Cc: Anthony Newland <ANewland@cityofparramatta.nsw.gov.au>; lia.evangelia.pl@gmail.com; Joshua Jenkins <joshua.jenkins@greatrivercity.com.au>; Michael Watts Ronald <mwatts@caf.net>
Subject: FW: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

Morning Ian,

Just following up from our last correspondence of sending through all the GRCLR sub – plans for City of Parramatta's review.

Can you please confirm that you are happy to accept the close out of comments on the GRCLR Construction Environment Management Plan?

Regards

ANITA RYLAH
Environment, Planning and Sustainability Manager

M +61 417630652
E anita.rylah@greatrivercity.com.au



Level 1, 31 Macquarie St, Parramatta NSW 2150

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From: Andy England <system@teambinder.com> **On Behalf Of** Andy England
Sent: Friday, 7 August 2020 10:51 AM
To: Anita Rylah <anita.rylah@greatrivercity.com.au>
Subject: Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC

Document Transmittal



Project Number:	PLRM	Transmittal No:	PLRM-GLR-COP-TX-000004
Project Title:	Parramatta Light Rail - Main Works		
Date:	07 August 2020 10:50 AM		
Subject:	Construction Environment Management Plan - Sub-Plan Consultation Request with CoPC		

Reason for Issue: Issued For Review

Message:

Anthony,

In follow up to our recent consultation on GRCLR's Construction Environment Management Plan (CEMP), GRCLR has now prepared Sub-Plans to the CEMP, required under the CSSI Approval (8285) the Conditions of Approval (CoA) C1 and C2, and under CoA C3 and C5. Under these conditions, GRCLR are required to undertake consultation with key stakeholders.

The following Sub-Plans have been prepared by GRCLR:

Sub-Plans for the Stabilising and Maintenance Facility Only *(a revised version of these plans covering the entire SOM construction scope of works will be released at a later date for consultation prior to commencement of construction):*

- Traffic, Transport and Access Management Plan (TTAMP)
- Flood Management Plan (FMP)
- Flora and Fauna Management Plan (FFMP)

Sub-Plans for the Entire SOM Construction Scope of Works:

- Noise and Vibration Management Plan (NVMP) including Noise Vibration Monitoring Program (NVmonP)
- Heritage Management Plan (HMP)

Further to the above sub plans, GRCLR is required under the CSSI Approval (8285) the Conditions of Approval (CoA) C9 (a) to develop a Water Quality (turbidity) Monitoring Program. GRCLR is seeking an exemption from CoA C9 (a) Water Quality (turbidity) Monitoring Program for the SOM works, in consultation with our key stakeholders, due to the following reasons:

- The SaMF site would be limited to surface water run-off. Erosion and sediment controls would be in place. The potential release of sediment-laden surface flows would be low and would only occur if appropriate controls were not in place.
- Calculations of Erosion Risk at the site indicate that the rate of soil loss would be very low.
- The SaMF site has undergone subsurface remediation works, which involved removing all vegetation from site and installing a compacted capping layer. This will limit any exposed natural surfaces that would ordinarily contribute to the sediment-laden surface flows at the site.
- Any measured changes within the Parramatta River would be difficult to directly attribute to the works at the SaMF site in isolation from other contributors to the catchment flow.

GRCLR is providing the SWMP as an alternative to the water quality monitoring program, as was done for the early works packages for PLR. The scope of the SaMF would unlikely have measurable impacts on the Parramatta River. Therefore, monitoring of surface water is not proposed as part of delivery of the SaMF. As part of the review of this SWMP the Department of Primary Industries (Water) and the Environment Protection Authority is also being consulted on this approach. This is discussed in further detail in Section 4.2.1 of the SWMP.



Please note: the SWMP included with this transmittal, is for the construction of the SaMF site only. A revised SWMP covering all GRCLR construction works will be released at a later date for consultation prior to commencement of GRCLR works along the main alignment

GRCLR invites The City of Parramatta Council (CoPC) to review and comment on the Sub-Plans, attached to this transmittal along with a review comment sheet.

GRCLR requests that if CoPC would like to review and provide comments on the GRCLR Sub-Plans, would you please return these by Thursday 3rd September 2020.

Please contact Anita Rylah on the below details should additional information be required, or you have any further questions regarding these Sub-Plans.

Anita Rylah
Environment, Planning and Sustainability Manager

M +61 417630652  
E anita.rylah@greatrivercity.com.au

Please let us know if do not intend to make any comments

Please submit your comments by 03 September 2020

Transmitted to:

Company	Name
City of Parramatta	Anthony Newland

Transmitted cc:

Company	Name
Transport for NSW	Walter Casu
Transport for NSW	Samaneh Fard
Great River City Light Rail Pty Ltd	Anita Rylah
Great River City Light Rail Pty Ltd	Joshua Jenkins
Great River City Light Rail Pty Ltd	Lia Camillo
Great River City Light Rail Pty Ltd	Michael Watts
Great River City Light Rail Pty Ltd	Andy England
Great River City Light Rail Pty Ltd	Johanna Maslem

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Item	Document No	Rev	Sts	Title	Alt Doc Number	Design Package No
1	PLR1SOM-GLR-ALL-EN-PRG-000001	C	C3	Construction Noise and Vibration Monitoring Program		
2	PLR1SOM-GLR-ALL-PM-PLN-000032	D	S2	Construction Traffic, Transport and Access Management Sub Plan	PLR-SOM-GLR-PJT-PM-PLN-000032	
3	PLR1SOM-GLR-ALL-PM-PLN-000033	D	S2	Construction Flora and Fauna Management Sub Plan	PLR-SOM-GLR-PJT-PM-PLN-000033	
4	PLR1SOM-GLR-ALL-PM-PLN-000034	D	S2	Construction Noise and Vibration Management Sub Plan	PLR-SOM-GLR-PJT-PM-PLN-000034	

5	PLR1SOM-GLR-ALL-PM-PLN-000035	D	S2	Construction Soil and Water Quality Management Sub Plan	PLR-SOM-GLR-PJT-PM-PLN-000035	
6	PLR1SOM-GLR-ALL-PM-PLN-000037	G	S2	Construction Heritage Management Sub Plan	PLR-SOM-GLR-PJT-PM-PLN-000037	
7	PLR1SOM-GLR-ALL-PM-PLN-000047	C	S0	Flood Management Plan	PLR-SOM-GLR-PJT-PM-PLN-000040	

Transmitted by: Andy England, Great River City Light Rail Pty Ltd

TeamBinder Transmittal Reference: {7120FC4C-C045-45B1-8B9F-D3F505AFAC19}

Appendix A7: Environmental Representative (ER) Endorsement



26 August 2020

Transport for NSW

Attention: **Megan Haberley**

Senior Manager Environment

Parramatta Light Rail

130 George St, Parramatta, NSW 2150

**Review of Parramatta Light Rail Stage 1 - Transport for NSW Supply,
Operate, Maintain (SOM) Package - Construction Environmental
Management Plan (CEMP)**

Pursuant to Parramatta Light Rail – Stage 1 (SSI-8285) Condition of Approval A23 (d) (i), as the approved Environmental Representative, I confirm that I have reviewed the following documents against the requirements of relevant conditions of approval (CoA) A5, C1, C2, C5:

- Transport for NSW Supply, Operate, Maintain (SOM) Package Parramatta Light Rail - Construction Environmental Management Plan (CEMP) August 2020 (PLR1SOM-GLR-ALL-PM-PLN-000014) Revision H – For the construction of Stabling Yard Maintenance Facility only
- Standalone Report Consultation Report- CoA A5 Consultation Report for Construction Environmental Management Plan, July 2020 [PLR1SOM-GLR-ALL-EN-RPT-001002 and Revision C]

The reviewed CEMP and consultation report are for the construction of the Stabling and maintenance facility (SaMF) only.

As per the condition of approval C7, this CEMP is now endorsed for submission to the Secretary for approval no later than one month before the commencement of construction.

Yours sincerely,

Australian Quality Assurance & Superintendence Pty Ltd (AQUAS)

Annabelle Tungol

Environmental Representative

Filename: AQ1148.05 PLR SOM CEMP-SAMF ER ENDORSEMENT 200826.DOCX