

# Construction **Environmental Management Plan**

Aldington and Abbotts Road Upgrade -Phase 1

Kemps Creek



January 2025



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#### **Revisions**

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## Contents

1 Introduction	1
1.1 Background	1
1.2 Project Description	1
1.3 SEPP Amendment – Abbotts and Aldington Roads Upgrade	2
1.3.1 Construction Staging	5
1.3.2 Construction Hours	5
1.3.3 Key Personnel Contact Details	6
1.4 CEMP Purpose, Context and Objectives	6
1.4.1 CEMP Context	6
1.4.2 CEMP Scope	7
1.4.3 CEMP Objectives	7
1.4 Objectives and Targets	7
2 Community and Stakeholder Engagement	10
2.1 Stakeholder Consultation	10
2.2 Community Communication during Construction	10
2.3 Complaints Management	11
3 Environmental Management Framework	12
3.1 Project Organisational Structure	12
3.2 Roles and Responsibilities	12
3.3 Legal and Compliance Requirements	15
3.3.1 SSD Development Consent Compliance Matrices	15
3.3.2 Regulatory Framework	15
3.3.3 Other Licences, Permits, Approvals and Consents	17
3.4 Training and Awareness	17
4 Implementation	19
4.1 Mitigation Measures	19
5 Monitoring and Review	21
5.1 Environmental Inspections	21
5.2 Environmental Monitoring	21
5.3 Environmental Auditing	22
5.3.1 Internal Audits	22
5.3.2 External Audits	22
5.4 Contingency Management Plan	23
5.5 Non-compliance and Actions	23



5.6 Environmental Incident and Emergency Response	24
5.6.1 Environmental Incidents	24
5.6.2 Environmental Emergencies	25
5.7 Environmental Reporting	25
5.8 CEMP Review and Revision Program	27

Appendix A Development Consent Compliance Matrix

Appendix B Erosion and Sediment Control Plan

Appendix C Construction Noise and Vibration Management Plan

Appendix D Construction Air Quality Management Plan

Appendix E Construction Waste Management Plan

Appendix F Unexpected Contamination Finds Protocol

Appendix G Construction Flora and Fauna Management Plan

Appendix H Dam Decommissioning Management Plan

Appendix I Heritage Management Plan (Unexpected Finds)

Appendix J Construction Traffic Management Plan

Appendix K Community Consultation Strategy and Complaints Handling Procedure

Appendix L Fill Management Plan

Appendix M Salinity Management Plan

Appendix N Consultation Records

Appendix O Contingency Plan

#### **List of Figures**

Figure 1-1 Location of AARU Phase 1 and Phase 2 Projects and MAIU Project (AT&L, 2023)3Figure 1-2 Extent of works site compound, indicative stockpiling and vehicle parking area(AT&L, 2024)(AT&L, 2024)4

#### **List of Tables**

Table 1-1 Project construction staging	5
Table 1-2 Construction hours of work	5
Table 1-3 Emergency 24-hour contact details	6
Table 1-4 Objectives and targets	8
Table 3-1 Project roles and responsibilities	12
Table 3-2 Legislative and related instruments relevant to the Project	15



Table 3-3 Other licences, permits and approval requirements relevant to the Project	17
Table 4-1 Key mitigation measures	19
Table 5-1 Emergency contact details	25
Table 5-2 Summary of environmental reporting	26



## Glossary

Term	Definition
AARU	Aldington and Abbotts Road Upgrade
Aspect	Aspect Environmental Pty Ltd
CAQMP	Construction Air Quality Management Plan
CCS&CHP	Community Consultation Strategy and Complaints Handling Procedure
CEMP	Construction Environmental Management Plan
CFFMP	Construction Flora and Fauna Management Plan
CNVMP	Construction Noise and Vibration Management Plan
CoC	Condition(s) of Consent
CTMP	Construction Traffic Management Plan
CPESC	Certified Professional in Erosion and Sediment Control
CWMP	Construction Waste Management Plan
DCP	Development Control Plan
DDMP	Dam Decommissioning Management Plan
DPE	Department of Planning and Environment
DPHI	Department of Planning, Housing and Infrastructure (formerly DPE)
EIE	Explanation of Intended Effect
EIS	Environmental Impact Statement
Environmental Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
EPA	Environment Protection Authority
ER	Environmental Representative
ESCP	Erosion and Sediment Control Plan
HSSE	Health, Safety, Security and Environmental
HMP	Heritage Management Plan
MAIU	Mamre and Abbotts Road Intersection Upgrade
Material Harm	Harm that involves actual or potential harm to the health or safety of human beings or to the environment that is not trivial, or 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).
MRP	Mamre Road Precinct
Non-compliance	An occurrence, set of circumstances, or development that is a breach of the SSD 9138102 Development Consent.
POEO Act	Protection of the Environment Operations Act 1997
Project, the	Phase 1 of road widening along Abbotts Road and part of Aldington Road and installation of signals at the intersection of Abbotts and Aldington Road
RCP	Robson Civil Projects Pty Ltd



Term	Definition
RtS	Response to Submissions
Site, the	A local road reserve under the Penrith City Council located at the intersections of Abbotts and Aldington Road, Kemps Creek, NSW
SMP	Salinity Management Plan
SSD	State significant development
TfNSW	Transport for New South Wales
TGS	Traffic guidance scheme
UCUFP	Unexpected Contamination Finds Protocol



## 1 Introduction

## 1.1 Background

This Construction Environmental Management Plan (CEMP) has been prepared by Aspect Environmental Pty Ltd (Aspect), on behalf of ESR Australia Pty Ltd (ESR) to support Phase 1 of the Aldington and Abbots Road Upgrade (AARU) Project (the Project). The Project consists of construction works associated with the widening of Abbotts Road and a section of Aldington Road, to service the development of land within the Mamre Road Precinct.

The Project is part of Significant state development (SSD) approval, SSD 9138102 and is being delivered by ESR. Land Owner's Group – North East will deliver Phase 2 of the AARU Project under a separate SSD approval (SSD 10479) and will be covered by a separate CEMP.

This CEMP has been prepared with reference to:

- SSD consent 9138102 as modified (Modification 5), dated 07 June 2024
- SSD 9138102 Westlink Stage 1 Modification 5 Final Modification Report (Ethos Urban 21 March 2024)
- SSD 9138102 Environmental Impact Statement (Ethos Urban, 17 June 2021)
- Development Control Plan (DCP) Penrith (Penrith City Council, 2014)
- DCP: Mamre Road Precinct Western Sydney Employment Area (NSW Department of Planning, Industry and Environment, November 2021).

The CEMP defines the environmental management framework for construction of the Project.

## **1.2 Project Description**

The Project is located at Kemps Creek, within the Penrith Local Government Area and is zoned as 'IN1 – General Industrial' under the Penrith City Planning Certificate under section 10.7(2) of the *Environmental Planning and Assessment Act 1979*. The Project forms part of the Mamre Road Precinct (MRP) which sits within both the Western Sydney Employment Area (where 850 hectares of rural land has been rezoned for industrial development and use) and the Western Sydney Aerotropolis.

Mamre Road is a key transport corridor passing through the Western Sydney Growth Area and provides connections to the MRP via Abbotts Road and Aldington Road, Kemps Creek.

Construction is currently underway on several industrial and logistic estates within the Mamre Road Precinct, and the Project which includes road widening, upgrade and intersection works is required to support the overall planned industrial redevelopment, projected traffic growth in the area and typical Distributor Road Requirements.

The Project site is located at the intersections of Abbotts and Aldington Road, Kemps Creek, NSW (the Site). Aldington Road and Abbotts Road are local roads, under the responsibility of Penrith City Council. The Project involves road widening along Abbotts Road and part of Aldington Road and installation of signals at the intersection of Abbotts and Aldington Roads.

Land surrounding the Site is generally rural in nature comprising a variety of rural dwellings, rural land, farm dams and scattered vegetation



The Project involves:

- bulk earthworks and site preparation works including vegetation clearing
- upgrade and widening of Abbotts Road with dual-lane carriageways separated by median strips
- a new intersection connecting Abbotts Road and Aldington Road and road widening along parts of Aldington Road within the existing road corridor
- stormwater including new and larger culverts under and adjacent to road
- relocation of services above and underground
- new services including water, power and communications
- site sheds and material storage as required for road construction
- temporary works as necessary to facilitate construction.

An aerial photograph showing the location of the AARU Phase 1 and Phase 2 Projects and Mamre and Abbotts Road Intersection Upgrade (MAIU) Project is shown on Figure 1-1. The MAIU Project is being delivered under both SSD 9138102 and SSD 10479 approvals by the LOG-E.

This CEMP applies to Phase 1 of the AARU Project only. Phase 2 of AARU Project and the MAIU Project are being delivered under separate CEMPs.

A plan showing the extent of works and indicative site compound (inclusive of stockpiling and vehicle parking areas) for the Project is shown on Figure 1-2.

## **1.3 SEPP Amendment – Abbotts and Aldington Roads Upgrade**

Amendments were made to the State Environmental Planning Policy (Industry and Employment SEPP 2021) to enable upgrade works to Abbotts and Aldington Roads in the MRP. The changes were exhibited in an Explanation of Intended Effect (EIE) from 22 February 2024 to 21 March 2024. The EIE detailed proposed changes to the Industry and Employment SEPP 2021 to rezone the road corridors and reserve the land for road widening purposes along Abbotts Road and Aldington Road. The roads were rezoned as SP2 Infrastructure (local road). The rezoning also included:

- private land subject to future road widening under the MRP DCP 2021
- land subject to future road corridor widening on the Land Reservation Acquisition Map to enable these parcels of land to be acquired by Penrith City Council as the relevant acquisition authority.

The intersection of Mamre Road and Abbotts Road is zoned as SP2 Infrastructure as a classified road, with Transport for NSW as the acquisition authority. The dedication of land owned by ESR will be carried out under planning agreements, and the gazettal of the SEPP amendment does therefore not impact on the ability for works to commence.





Figure 1-1 Location of AARU Phase 1 and Phase 2 Projects and MAIU Project (AT&L, 2023)





Figure 1-2 Extent of works site compound, indicative stockpiling and vehicle parking area (AT&L, 2024)



### **1.3.1 Construction Staging**

ESR's contractors will deliver the Project in stages as identified in Table 1-1.

Project Stage	Proposed Construction Activities	Actual/Forecast Commencement	Actual/Forecast Duration
Stage 1	Temporary pavement construction	January 2025	5 months
Stage 2	Construction of eastern side of Aldington Road and northern side of Abbotts Road	June 2025	3 months
Stage 3	Construction of western side of Aldington Road and northern side of Abbotts Road	September 2025	4 months

#### Table 1-1 Project construction staging

Forecast dates are approximate and are subject to construction planning. Note that construction phases overlap.

#### **1.3.2 Construction Hours**

Construction hours will be in accordance with the requirements of SSD 9138102 CoC D29, which are reproduced in Table 1-2.

#### Table 1-2 Construction hours of work

Activity	Day	Time
Construction	Monday to Friday	7 am to 6 pm
	Saturday	8 am to 1 pm

No works are to be undertaken on Sundays or public holidays.

Under SSD 9138102 CoC D30, works outside of hours identified in Table 1-2 may be undertaken in the following circumstances:

- a) works that are inaudible at nearest sensitive receivers
- b) works agreed to in writing by the Planning Secretary
- c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons
- d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

SSD 9138102 CoC D31 enables the following works to be undertaken out of hours, in accordance with the Out of Hours Works Protocol approved under CoC D25(c):

- a) installation of drainage infrastructure
- b) asphalting
- c) other works required to be completed at night for safety reasons, as detailed in an approved CTMP.

For works to be undertaken out-of-hours, refer to the Construction Noise and Vibration Management Plan (CNVMP) attached as Appendix C for specific noise and vibration-related requirements.



The construction hours will be communicated to all personnel and contractors as part of the site induction.

#### **1.3.3 Key Personnel Contact Details**

The emergency contact details (24 hours 7 days a week) for key project personnel are included in Table 1-3. The personnel are from ESR, Robson Civil Projects Pty Ltd (RCP), Environmental Representative (ER) or Certified Professional in Erosion and Sediment Control (CPESC) engaged by ESR to meet the requirements of SSD 9138102 CoC B21.

Role	Name	Contact Details
ESR Representative	Alasdair Cameron	M: 0402 458 226 E: Alasdair.cameron@esr.com
RCP Project Manager	Gerard Noone	M: 0439 246 804 E: <u>Gerard.noone@robsoncivil.com.au</u>
RCP Safety and Environmental Coordinator	Derek Doohan	M: 0420 345 527 E: <u>derek.doohan@robsoncivil.com.au</u>
Communications and Community Liaison Representatives	Stephanie Skordas Marco Biamonti	T: (03) 9249 9400 (Marco) E: <u>sskordas@slrconsulting.com</u> marco.biamonti@slrconsulting.com
ER	Carl Vincent	M: 0424 203 046 E: <u>carl.vincent@ersed.com.au</u>
Alternate ER	Richard Peterson	M: 0429 227 775 E: <u>Richard.peterson-trigalana@outlook.com</u>
CPESC	Andrew Littlewood	M: 0429 953 626 E: andrew@rubiconenvrio.com.au

Table 1-3 Emergency 24-hour contact details

All roads will be kept open for public access for the duration of construction works.

## **1.4 CEMP Purpose, Context and Objectives**

#### **1.4.1 CEMP Context**

This CEMP has been prepared to address the specific requirements of the SSD 9138102 Development Consent. As required by SSD 9138102 CoC D25 and other CoC, the following subplans have been prepared to support this CEMP:

- Appendix B Erosion and Sediment Control Plan (ESCP)
- Appendix C Construction Noise and Vibration Management Plan (CNVMP)
- Appendix D Construction Air Quality Management Plan (CAQMP)
- Appendix E Unexpected Contamination Finds Protocol (UCFP)
- Appendix G Construction Flora and Fauna Management Plan (CFFMP)
- Appendix H Heritage Management Plan (HMP)
- Appendix J Construction Traffic Management Plan (CTMP)



- Appendix K Community Consultation Strategy and Complaints Handling Procedure (CCS&CHP)
- Appendix L Contingency Plan.

In accordance with the CoC, this CEMP and relevant sub-plans must be reviewed by the ER to ensure they are consistent with requirements in or under the Development Consents and if so, make a written statement to that effect. Relevant CEMP and sub-plans are then submitted for the approval of the Planning Secretary in accordance with CoC D25.

Construction of the Project will not commence until the CEMP and relevant sub-plans are approved by the Planning Secretary.

Construction will be undertaken in accordance with the most recent, approved version of this CEMP and sub-plans.

#### 1.4.2 CEMP Scope

The CEMP has been prepared to satisfy the SSD 9138102 Development Consent. These specific requirements, together with where these requirements have been addressed in the CEMP are listed in Appendix A.

#### **1.4.3 CEMP Objectives**

The objectives of this CEMP are to:

- Identify the roles and responsibilities of key personnel.
- Provide guidelines for undertaking the construction works in compliance with the CoC and other applicable regulatory requirements.
- Demonstrate to the Department of Planning, Housing and Infrastructure (DPHI) how ESR proposes to meet the relevant regulatory obligations including those outlined in the CoC.
- Outline the controls to be implemented by the contractor to meet those obligations.
- Prescribe project-specific performance standards and mitigation measures that aim to protect human and ecological values and manage the potential impacts of the works on the environment.
- Detail environmental management practices for the management, implementation and monitoring of the Project.

All personnel, contractors and visitors are required to comply with the requirements of this CEMP at all times.

### **1.4 Objectives and Targets**

Environmental objectives and targets have been established as a means of assessing environmental performance during construction. The objectives and targets in Table 1-4 have been developed with consideration of the key issues identified through the environmental assessment and risk assessment process.



#### Table 1-4 Objectives and targets

Objective	Target	Monitoring Method	
General			
Comply with all relevant environmental standards, legislation and approvals during the life of the Project	No written warnings or infringement notices	Site Inspection Checklist Site diary records ER monitoring and inspections CPESC supervision and inspections	
Harm to people, the environment and property	No environmental incidents	Incident register/reports	
Air Quality			
Meet NSW Environment Protection Authority (EPA) air quality criteria	No written warnings or infringement notices	Site Inspection Checklist Daily pre-start checks on plant and equipment Site diary records Site safety walk and observation	
Minimise impacts from dust emissions during construction for sensitive receivers	No visible dust emissions leaving the Project site No complaints relating to air quality	Consultation Register Site diary records	
Waste			
Manage waste production and resource recovery	In accordance with targets within Penrith City Council's Waste Hierarchy	Waste reporting	
Noise and Vibration			
Minimise impact from construction noise and vibration for sensitive receivers	No complaints relating to noise and vibration	Noise and vibration monitoring Consultation Register	
Manage construction noise	To be in accordance with EPA's interim Construction Noise Guideline (DECC, 2009)	Noise monitoring Consultation Register	
Soil and Water			
Minimise adverse water quality and sedimentation impact during construction	Minimum impact on waterbodies surrounding the Project	ER monitoring and inspections CPESC supervision and monthly inspections	
Traffic			
Manage construction vehicles in efficient and safe manner	No accidents	Incident reports	
Manage car parking and traffic disturbances on surrounding road network and public road network users	No complaints relating to car parking and traffic	Consultation Register Monthly reports to ER	
Heritage			
No impact to Aboriginal heritage items	Limit impacts to the scope permitted by the Development Consents	Results from implementation of Heritage Unexpected Finds Procedure	
Wildlife			



Objective	Target	Monitoring Method
Minimise impacts to biodiversity during construction	No impact to biodiversity	Site Inspection Checklist Six-monthly monitoring by suitably qualified ecologist
Minimise impacts of wildlife to Western Sydney Airport operations	Minimal occurrence of common strike species at the site	Site Inspection Checklist Six-monthly monitoring by suitably qualified ecologist



## 2 Community and Stakeholder Engagement

## 2.1 Stakeholder Consultation

The CoC required consultation with Council during the preparation of this CEMP. The result of that consultation is included in Appendix N.

The CEMP sub-plans were produced in consultation with the relevant stakeholders identified in the CoC. During the consultation process comments received were addressed within the relevant management plan. Evidence of consultation is included in each relevant sub-plan.

## 2.2 Community Communication during Construction

In accordance with the CoC a CCS&CHP has been prepared for the Project and is included as Appendix K (SLR, August 2024). This strategy outlines measures to enable effective communication with the community and stakeholders throughout the construction works including:

- regular community notifications
- community updates when there are changes to construction works to those previously communicated
- interactions between workers and the community
- stakeholder and community feedback protocol
- issues management and dispute resolution
- consultation registers and enquiries management
- complaints management.

A range of communications channels may be used to communicate with the community including:

- stakeholder (including the MRP Working Group) and resident meetings and briefings via video conference or in person
- the Project website mamrealdingtonupgrades.com
- the Project hotline 1800 960 071
- the Project email info@mamrealdingtonupgrades.com.au
- letterbox notifications
- door knocking
- media announcements
- consultation register.

ESR will participate in the existing MRP Working Group, with other relevant development consent holders in the MRP. Participation will commence within three months of the commencement of construction and will be ongoing until all components of the Project are constructed and operational. The purpose of the MRP Working Group is to consult and coordinate construction



works within the MRP to assist with managing and mitigating potential cumulative environmental impacts.

The MRP Working Group currently includes the developers of the following industrial estates that have received development consent:

- 200 Aldington Road Industrial Estate (SSD 10479)
- Access Logistics Park (SSD 17647189)
- Aspect Industrial Estate (SSD 10448)
- Yiribana Logistics Estate (SSD 10272349).

The implementation of the strategy will assist the team to deliver the Project with minimal disruption to the community.

## 2.3 Complaints Management

Complaints and enquiries will be managed in accordance with Section 6.3 (Complaints and Enquiries Handling) of the CCS&CHP (Appendix K).

The ongoing and consistent management of Project related feedback is crucial to develop appropriate mitigation strategies in response to issues identified and experienced. As such, the Project team will document all stakeholder and community related feedback received directly, in a professional and timely manner.

Feedback is defined as any communication received from a stakeholder or community member which expresses support and/or dissatisfaction with any aspect of the Project and its delivery. As such, the proposed contact response timings for general enquiries are as follows:

- Acknowledgement of all stakeholder and community contact within 24 hours of receipt.
- Development of proposed response and issue within 48 hours by the Project team. This timeframe can be extended where complex information is required, provided an acknowledgment of the enquiry is sent, outlining the need to gather more information before a response can be sent.
- A five-business day response target for complex enquiries e.g. requires further consultation and planning with the Project team, request for meeting.
- All details will be captured and logged in the Consultation Register, and all responses will be shared with the Project team.

In accordance with SSD 9138102 CoC A36, the Consultation Register will be made available to the ER on a daily basis. The ER will assist DPHI in the resolution of community complaints, as may be requested by the Planning Secretary.



## 3 Environmental Management Framework

## **3.1 Project Organisational Structure**

ESR is the developer of the Project and has overall responsibility for compliance with the SSD 9138102 Development Consent. ESR have engaged RCP as the Principal Contractor for the construction of the Project. All personnel including consultants, contractors, sub-contractors and all other personnel associated with undertaking construction works, ultimately report to the Principal Contractor (RCP).

The Principal Contractor is responsible for monitoring the environmental performance of the Project and monitoring compliance with the CoC, this CEMP and sub-plans as they relate to the construction of the Project.

### 3.2 Roles and Responsibilities

All Project personnel are responsible for the implementation of this CEMP and have the responsibility to stop works if there is the potential for an environmental incident to occur.

Roles and responsibilities for environmental management of the Project are outlined in Table 3-1.

Role	Responsibility
ESR Representative	Environmental reporting responsibility associated with the Project.
	Overall responsibility for environmental management and compliance with the CoC and relevant legislation.
	Liaise with ESR management to keep them informed of environmental performance and progress.
	Attend monthly contractor coordination meetings.
	Consult and engage with any contractors or interfacing contractors regarding the environmental management, including attending monthly contractor coordination meetings.
RCP Project Manager	Oversee the implementation and maintenance of the CEMP and sub-plans.
	Verify that any licence, permit and/or approval required for the Project has been obtained in the required timeframe.
	Implement the UCFP in the event of contamination being encountered onsite during construction. Submit the disposal location and results of testing to the Planning Secretary, prior to its removal.
	Monitor and report on overall environmental management performance.
	Review and acknowledge periodic environmental inspection reports.
	Initiate Project meetings as required or directed, in which environmental items are discussed as appropriate.
	Identify and allocate Project resources to implement the requirements of the CEMP and sub-plans.

Table 3-1 Project roles and responsibilities



Role	Responsibility	
	Confirm relevant environmental expectations expressed by the client and/or regulatory authorities to the Project team.	
	Record, notify, investigate and respond to any environmental incidents and, where necessary, guide the development and implementation of corrective actions.	
	Provide adequate environmental inductions and training to all employees and contractors regarding their requirements of this CEMP.	
	Provide the ER with all documentation requested in order for the ER to perform their functions specified below, including any assessment carried out to determine whether proposed work is consistent with the SSD 9138102 Development Consent (which must be provided to the ER before the commencement of the subject work).	
RCP Safety and	Provide advice where required in relation to environmental issues.	
Coordinator	Inform all personnel including sub-contractors of the requirement to conform with the CEMP and sub-plans.	
	Complete fortnightly site inspections to monitor and verify mitigation measures are implemented and effective.	
	Assist with the implementation of the CUFP in the event of contamination being encountered onsite during construction.	
	Monitor weather conditions to prepare for high winds or other extreme weather events.	
	Provide regular environmental inspection and progress reports to the RCP Project Manager.	
	Monitor environmental compliance with the CEMP and sub-plans.	
	Facilitate the environmental induction and training (toolbox talks) of employees and sub- contractors (as required).	
	Complete and maintain all necessary environmental documentation for the contract.	
	Conduct environmental incident investigations and implement corrective action responses in consultation with the RCP Project Manager.	
Communications and Community Liaison	Lead and manage the community involvement activities, including liaison with property owners and key stakeholders.	
Representative	Be the primary Project contact for the public, handling enquiries and complaints and managing interface issues.	
	Maintain the Consultation Register and make available the Consultation Register to the ER on a daily basis.	
	Be available for contact by local residents and the community at all reasonable times to answer any questions.	
	Liaise with property owners to co-ordinate access and to deal with specific property related issues arising from the Project.	
	Lead the delivery of communication and community engagement strategies and plans.	
	Facilitate meetings and forums and arrange interviews to address concerns raised by the community.	
	Provide advice and participate with the Project team to improve and enhance the delivery of communication services to the community.	
	Build and maintain collaborative and consultative working relationships with internal and external stakeholders.	
	Be available for contact by local residents, key stakeholders and community representatives to answer queries and provide more information or feedback.	



Role	Responsibility
ER	Be a suitably qualified and experienced person who was not involved in the preparation of the EIS, Response to Submissions, Amendment Report and any additional information for the Project, and is independent from the design and construction personnel for the Project.
	Receive and respond to communication from the Planning Secretary in relation to the environmental performance of the Project.
	Consider and inform the Planning Secretary on matters specified in the terms of the SSD 9138102 Development Consent.
	Consider and recommend to RCP any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community.
	Review the CEMP and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under the SSD 9138102 Development Consent and if so:
	<ul> <li>make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary) or</li> </ul>
	<ul> <li>make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary/DPHI for information or are not required to be submitted to the Planning Secretary/DPHI).</li> </ul>
	Regularly monitor the implementation of the CEMP to be carried out in accordance with the document and the terms of the SSD 9138102 Development Consent.
	As may be requested by the Planning Secretary, help plan, attend, or undertake audits of the development commissioned by DPHI including scoping audits, programming audits, briefings, and site visits.
	As may be requested by the Planning Secretary, assist DPHI in the resolution of community complaints.
	Provide advice to the Applicant on the management and coordination of construction works on the site with adjoining sites in the MRP in relation to construction traffic management, earthworks and sediment control and noise.
	Attend the MRP Working Group (SSD 9138102 CoC A35) in a consultative role in relation to the environmental performance of the Project.
	Prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Quarterly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Quarterly Reports'. The Environmental Representative Quarterly Report must be submitted within seven calendar days following the end of each quarter for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.
	Implement and comply with the requirements of this CEMP.
CPESC	Review and approve ESCPs.
	Supervise and certify delivery and operation of all construction phase erosion and sediment controls.
	Conduct monthly audits of all construction phase erosion and sediment controls.
MRP Working Group	Meet periodically throughout the year to discuss, formulate and implement measures or strategies to improve monitoring and coordination of the approved industrial developments in the MRP.
	Inform Council, TfNSW, Sydney Water and the Planning Secretary regularly of the outcomes of these meetings and actions to be undertaken by the working group.



Role	Responsibility		
	Review the performance of approved industrial developments in the MRP and identify trends in the data with respect to cumulative construction traffic, erosion and sediment control, noise, stormwater management and waterway health objectives under the MRP DCP.		
	Review community concerns or complaints with respect to environmental management.		
	Identify interim traffic safety measures to manage construction traffic and how these measures will be coordinated, communicated, funded and monitored in the MRP.		
	Provide the Planning Secretary with an update and strategies, if a review under subclauses (d) and (e) identify that additional measures and processes are required to be implemented by the working group.		
	Three months prior to completion of construction of all components of the Project the Applicant is eligible to exit the working group. The Applicant must:		
	a) consult with the Planning Secretary		
	b) provide confirmation that all components of the development are operational		
	c) advise on the date of the proposed exit.		
All personnel	Report all environmental incidents, hazards, non-compliances and near misses to their supervisor or the RCP Project Manager immediately.		
	Attend all required environmental awareness, induction and training sessions.		
	Stop work or otherwise mitigate the effects of an activity that is causing significant, uncontrolled or unexpected environmental harm.		
	Plant and equipment operators to complete daily pre-start inspection of plant and equipment and any leaks or excessive emissions reported to the RCP Safety and Environmental Coordinator.		

## **3.3 Legal and Compliance Requirements**

#### 3.3.1 SSD Development Consent Compliance Matrices

The Project is part of SSD Development Consent, SSD 9138102. The CoC and where this CEMP and sub-plans meet those requirements is in included in Appendix A.

#### 3.3.2 Regulatory Framework

The regulatory framework for the Project is outlined in Table 3-2, which identifies relevant legislative instruments, including legislative and voluntary obligations, permits and licences, and their key objectives and relevance to the Project.

Legislation	Key Project Requirements	Activity/Aspect
Environment Planning and Assessment Act 1979	Established a system of environmental planning and assessment of proposed developments in NSW.	All
	The Project must comply with the SSD 9138102 Development Consent.	
Environment Protection and Biodiversity Conservation Act 1999	Requirements in relation to protection and management of nationally and internationally important flora, fauna, ecological communities, and heritage places.	Threatened species and ecological environments

Table 3-2 Legislative and related instruments relevant to the Project



Legislation	Key Project Requirements	Activity/Aspect	
Biodiversity Conservation Act 2016	Comply with conservation requirements for any identified threatened species.	Threatened species and ecological environments	
Protection of the Environment Operations (POEO) Act 1997	The handling, storage and disposal of all waste streams on site is to be implemented in accordance with the POEO Act. Aims to aid the protection, restoration and enhancement of the quality of the NSW environment, including emissions to air. Identifies activities for which an Environment Protection Licence is	Construction waste management Discharges or emissions to air, land and water	
Protection of the Environment	required.	Management and mitigation of	
Operations (Noise Control) Regulation 2017	POEO (Noise Control) Regulation to mitigate the impacts of noise and vibration on sensitive receivers and the environment.	during construction works	
Protection of the Environment Operations (Clean Air) Regulation 2021	Identifies criteria for air quality objectives and emissions.	Management of any dust and air pollution emissions produced by works to promote air quality	
Protection of the Environment Operations (Waste) Regulation 2014	Handling, storage, transport and disposal of all waste streams to be undertaken with consideration for the requirements within the POEO (Waste) Regulation. Aims to protect human health and the environment. Identifies the thresholds for Environment Protection Licences.	Management of construction waste Discharge or emissions to air, land, water in accordance with thresholds set by the regulation	
Waste Avoidance and Resource Recovery Act 2001	<ul> <li>Aims to promote waste avoidance and resource recovery by:</li> <li>Encouraging efficient use of resources</li> <li>Encouraging the avoidance of waste and the reuse and recycling of waste</li> <li>Ensuring industry and the community share responsibility in reducing/dealing with waste</li> <li>Efficiently funding waste/resource management planning, programs and service delivery.</li> </ul>	Management of construction waste	
Contaminated Land Management Act 1997	Remediation requirements for management of contaminated lands.	May be applicable in the event of any unexpected find of contaminants/ contamination	
State Environmental Planning Policy (Resilience and Hazards) 2021	Remediation of contamination lands and consent requirements.	May be applicable in the event of any unexpected find of contaminants/ contamination	
Heritage Act 1977 National Parks and Wildlife Act 1974	Protection and recording of Indigenous and non-Indigenous heritage values, relics, artefacts, places and other finds/remains.	Earthmoving /excavation works – identifying unexpected finds	
Managing Urban Stormwater: Soils and Construction – Volume 1 (the "Blue Book") (Landcom, March 2004)	Soil and erosion controls for managing surface water flows onsite and reducing potential for erosion and sedimentation leaving site.	Management surface water flows onsite	



Legislation	Key Project Requirements	Activity/Aspect
Technical guidance for achieving Wianamatta-South Creek stormwater management targets (DPE, September 2022)	In accordance with Water Sensitive Urban Design principles set out in the Technical Guidance.	Specific direction on what modelling to undertake, assumptions to make and which data to use to demonstrate that the stormwater management targets are being achieved
Mamre Road Stormwater Scheme Plan (Sydney Water, December 2022)	Performance of stormwater management system in accordance with Integrated Water Cycle Management Controls.	Water cycle management Irrigated street trees
Stormwater Scheme Infrastructure Design Guideline (Sydney Water, December 2022)	Irrigated street trees	Design of irrigated street trees

#### **3.3.3 Other Licences, Permits, Approvals and Consents**

The additional licences, permits, approvals and consent requirements for the Project are outlined in Table 3-3. A current list of licences, permits, approvals and consents, and their status, including any new additions as the Project progresses, will be included in monthly reports.

|--|

Requirement	Responsible	Timing	CoC
All relevant approvals from utility service providers	RCP	Before the construction of any utility works associated with the Project	A30
A Compliance Certificate for water and sewerage infrastructure servicing at the site will be obtained	RCP	Before the commencement of operation of the Project	A31

## 3.4 Training and Awareness

All personnel including sub-contractors are required to attend a compulsory site induction that includes an environmental component, prior to commencement of works onsite.

The environmental induction will include, but not be limited to, an overview of:

- relevant details of the CEMP including purpose and objectives
- key environmental aspects of the Project
- Project specific environmental management requirements and responsibilities as specified in CEMP and other sub-plans such as:
  - traffic management and Drivers' Code of Conduct requirements (refer SSD 9138102 CoC B60). Drivers' Code of Conduct will be provided to all contractors and suppliers at the time of contract/order to provide to their drivers prior to visiting the site
  - Aboriginal cultural heritage induction outlining obligations of workers under the National Parks and Wildlife Act 1979 and the Development Consents (refer SSD 9138102 CoC B81). This material is included in Appendix H.
- incident response and reporting requirements.

All Project personnel will be suitably qualified, but individual team members may benefit from specific environmental training (e.g. erosion and sediment control and environmental auditor training) to help them better manage the environmental impacts of the Project.



Short-term visitors to site will be required to undertake a visitor's induction and be accompanied by inducted personnel.

A record of all inductions will be maintained onsite.

Toolbox talks will also be used to review management procedures and identify/discuss daily site conditions and raise environmental awareness. Site inductions and toolbox talks will highlight specific environmental requirements and activities being undertaken at the worksite each day.

The CEMP will be explained to all contractors and a controlled copy will be maintained onsite during construction works.



## 4 Implementation

### **4.1 Mitigation Measures**

Mitigation measures to be implemented during construction to enable compliance with the SSD 9138102 Development Consent, performance measures and criteria are documented in Table 4-1 and the aspect-specific CEMP sub-plans.

#### Table 4-1 Key mitigation measures

Mitigation Measure	Responsibility		
Construction Hours			
Carry out construction activities and delivery of materials within approved construction hours.	RCP Project Manager		
Construction Impacts			
Maintain and implement CEMP on site.	RCP Project Manager		
All vehicles, plant and equipment used on site will be maintained and be in a proper and efficient condition and will be operated in a proper and efficient manner.	RCP Project Manager		
Erosion and Sediment Control	<u>.</u>		
See Appendix B Erosion and Sediment Control Plan	See sub-plan		
Noise and Vibration			
See Appendix C CNVMP	See sub-plan		
Air Quality			
See Appendix D CAQMP	See sub-plan		
Waste			
See Appendix E CWMP	See sub-plan		
Site Contamination			
See Appendix F UCFP	See sub-plan		
Biodiversity			
See Appendix G CFFMP	See sub-plan		
Dam Structures			
See Appendix H DDMP	See sub-plan		
Heritage			
See Appendix I HMP	See sub-plan		
Traffic			
See Appendix J CTMP	See sub-plan		
Community			
See Appendix K CCS & CHP	See sub-plan		
Fill Importation			



Mitigation Measure	Responsibility
See Appendix L FMP	See sub-plan
Salinity	
See Appendix M SMP	See sub-plan
Contingency	
See Appendix N CMP	See sub-plan



## 5 Monitoring and Review

## **5.1 Environmental Inspections**

The RCP Safety and Environmental Coordinator will complete fortnightly environmental inspections of the Project. The purpose of these inspections is to:

- verify compliance with CoC
- · review the performance and effectiveness of environmental controls
- identify any non-conformances or potential non-conformances against the mitigation measures and other requirements of this CEMP and the sub-plans
- document observations and track performance.

Environmental inspections and maintenance of sediment fences, sediment basin capacity and integrity and other erosion and sediment measures will also be undertaken as follows:

- following rainfall events >10mm (daily on workdays or as soon as practical during site shutdown periods)
- prior to any major shutdown period e.g. Easter and Christmas.

Replacement of any damaged mitigation measures will be performed as soon as possible.

Environmental inspections will be documented in RCP's Site Inspection Checklist.

Any corrective actions identified will be documented and their implementation will be recorded onsite to verify that they have been being actioned and closed out.

A daily pre-start inspection of plant and equipment will be undertaken by plant and equipment operators and any leaks or excessive emissions reported to the RCP Safety and Environmental Coordinator. RCP will perform random checks as part of the Project site safety walks.

The ER will regularly monitor the implementation of the CEMP and sub-plans to determine whether the Project is being carried out in accordance with this CEMP and the SSD 9138102 Development Consent.

The CPESC will supervise the delivery and operation of all construction phase erosion and sediment controls on the Site (whether constructed and maintained by RCP or other earthworks contractors), will review and approve updated ERSED plans and will also conduct monthly audits in accordance with SSD 9138102 CoC B23.

### **5.2 Environmental Monitoring**

Environmental monitoring will be undertaken to assist in verifying the following:

- · construction is in accordance with environmental approvals
- compliance with all relevant legislative requirements
- the minimisation of potential environmental incidents
- effectiveness of environmental controls
- implementation of this CEMP and the sub-plans.



Monitoring requirements are included in the relevant sub-plans. Where relevant, the sub-plan will provide detail on the following:

- responsibility for monitoring
- relevant standards applicable to the monitoring
- monitoring technique and location
- frequency of monitoring
- data management, review and distribution.

ESR will provide the ER with all performance reporting documentation in order for the ER to perform their functions in accordance with the SSD 9138102 Development Consent, including monthly and quarterly reporting to the DPHI.

### **5.3 Environmental Auditing**

#### **5.3.1 Internal Audits**

ESR will undertake an internal Health, Safety, Security and Environmental (HSSE) audit of the Project, the timing will depend upon the duration of the Project. Audits will involve a review of all environmental documents, records and reports to verify compliance with the CEMP. In addition, the ER may at any time request documents and evidence confirming implementation of the CEMP and sub-plans.

Key environmental and procedural aspects to be covered by the internal HSSE audit may include:

- · environmental mitigation measures detailed in the CEMP sub-plans
- adherence to reporting procedures
- complaint and incident management
- legislative requirements.

Environmental and construction records include:

- Consultation Register
- incident, non-conformance and corrective action reporting
- communications with stakeholders
- records of environmental monitoring
- monthly waste management reporting
- CEMP audit documentation.

Records of auditing and reporting will be maintained to demonstrate compliance.

#### **5.3.2 External Audits**

SSD 9138102 CoC D27 requires that within six months of the commencement of construction of the Project, and every six months thereafter, until completion of the Project, unless the Planning Secretary directs otherwise, the Project complete Independent Audits. The Independent Audits will be led and conducted by a suitably qualified, experienced and independent expert, including a specialist traffic person, whose appointment has been endorsed by the Planning Secretary. Audits



will be carried out in consultation with relevant agencies and will be prepared in accordance with the Independent Audit Post Approval Requirements (Department, 2020).

The independent audits will:

- assess whether the works are complying with the CoC
- recommend measures or actions to improve the environmental performance of the Project
- be submitted to the satisfaction of the Planning Secretary within six weeks of commissioning the Audit (or within another timeframe agreed by the Planning Secretary).

In accordance with SSD 9138102 CoC D28 and the requirements in the Independent Audit Post Approval Requirements (Department 2020), the Project will:

- review and respond to each Independent Audit Report prepared under CoC D27
- submit the response to the Planning Secretary and any other NSW agency that requests it, together with a timetable for the implementation of the recommendations
- implement the recommendations to the satisfaction of the Planning Secretary
- make each Independent Audit Report and response to it publicly available no later than 60 days after submission to the Planning Secretary and notify the Planning Secretary in writing at least 7 days before this.

## **5.4 Contingency Management Plan**

If inspections, monitoring and/or auditing indicate that the mitigation measures listed in the subplans are not effective in managing environmental impacts, the actions outlined in the Contingency Plan (Appendix L) will be implemented.

The Contingency Plan (required by SSD 9138102 CoC D25(i)) will manage any unpredicted impacts and their consequences. The implementation of this plan will allow the Project team to reduce ongoing impacts to levels below relevant impact assessment criteria as quickly as possible.

In addition, the cumulative environmental impacts (e.g. dust, noise, traffic and water quality impacts) of RCP and the other construction contractors working concurrently on the Project will be managed under the Contingency Plan. This will result in a coordinated response by ESR and its construction contractors to cumulative environmental impacts that are in excess of those predicted and required by the Project.

### 5.5 Non-compliance and Actions

A non-compliance is defined in SSD 9138102 Development Consent as an:

#### occurrence, set of circumstances or development that is in breach of this consent.

Potential non-compliances with the CoC, this CEMP and sub-plans can be identified by anyone and are to be reported to the RCP Project Manager as a potential non-compliance. The RCP Project Manager must report non-compliances and potential non-compliances to ESR immediately.

Non-compliances will be investigated to determine the root cause and any corrective and/or preventative actions arising from the investigation. This investigation will be documented in a Non-Compliance Report prepared by, or for, the RCP Project Manager and will include any corrective and/or preventative actions. The Non-Compliance Report will be provided to ESR within five days of the non-compliance.



In accordance with SSD 9138102 CoC C11, the Planning Secretary must be notified via the Major Projects website within seven days after the Project becomes aware of any non-compliance. The notification must identify the development and the application number for it, set out the CoC that the development is non-compliant with, the way in which it does not comply, the reasons for the non-compliance (if known), and what actions have been, or will be, undertaken to address the non-compliance.

Note that under SSD 9138102 CoC C13, a non-compliance which has been notified as an environmental incident (see Section 5.6.1) does not need to also be notified as a non-compliance.

## 5.6 Environmental Incident and Emergency Response

#### 5.6.1 Environmental Incidents

An environmental incident is defined in SSD 9138102 Development Consent as an:

occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.

Material harm is defined as:

harm that:

- a) involves actual or potential harm to the health or safety of human beings or to the environment 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).

Environmental incidents can be identified by anyone and are to be reported to the RCP Project Manager immediately. The RCP Project Manager must report environmental incidents to ESR immediately.

Under SSD 9138102 CoC C10, ESR must notify the Planning Secretary in writing via the Major Projects website immediately after ESR becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 6 of SSD 9138102 Development Consent.

Where a pollution incident causes or threatens material harm to the environment or human health, the following authorities must also be notified immediately under the POEO Act:

- EPA
- Penrith City Council
- The Ministry of Health (via Public Health Units)
- SafeWork NSW (formerly WorkCover)
- Fire and Rescue NSW.

Within 30 days of the date on which the incident occurred or as otherwise agreed to by the Planning Secretary, ESR must provide the Planning Secretary and any relevant public authorities (as determined by the Planning Secretary) with a detailed report on the incident, addressing all



requirements within Appendix 6 of the SSD 9138102 Development Consent, and such further reports as may be requested.

#### 5.6.2 Environmental Emergencies

An environmental emergency is any event that causes or has the potential to cause material harm to the environment.

ESR have nominated an emergency contact and an alternate contact that are available 24-hours a day, seven days a week. The Site Emergency Contact will have the authority to stop and direct works on site in the event of an emergency.

For reference, emergency contact details are included in Table 5-1.

Contact	Contact Details
Ambulance	000
Fire Brigade	000
Police	000
NSW EPA Pollution Hotline	131 555
DPHI	1300 305 695
NSW Department of Health	(02) 9391 9000
SafeWork NSW	13 10 50
Penrith City Council	(02) 4732 7777
	601 High Street, Penrith NSW 2750
ESR Representative	M: 0402 458 226
Alasdair Cameron	E: alasdair.cameron@esr.com
RCP Project Manager	M: 0439 246 804
Gerard Noone	E: Gerard.noone@robsoncivil.com.au
RCP Safety and Environmental Coordinator	M: 0420 345 527
Derek Doohan	E: <u>derek.doohan@robsoncivil.com.au</u>
ER	M: 0424 203 046
Carl Vincent	E: carl.vincent@ersed.com.au
Alternative ER	M: 0429 227 775
Richard Peterson	E: <u>Richard.peterson-trigalana@outlook.com</u>

#### Table 5-1 Emergency contact details

## 5.7 Environmental Reporting

The reporting of environmental performance during construction will be undertaken as required by the CoC. Environmental reporting requirements as documented in the CEMP and sub-plans are summarised in Table 5-2.



Table	5-2	Summary	of	environmental	reporting

Report	Timing/Frequency	Responsibility	Reference
Dilapidation Survey and Report	Before the commencement of construction	RCP Project Manager	CoC D32
ER Quarterly Report	Quarterly to DPHI	ER	CoC A35(k)
ER Monthly Report	Monthly	ER	CoC A36
Consultation/ Complaints Register	Daily	Communications and Community Liaison Representative to ER	CoC A36
CPESC Monthly Audit Reports	Monthly	CPESC	CoC B23
Environmental Review Report	Annually	RCP Project Manager	Section 5.8
Incident Report to ESR	Within 20 days of the date on which the incident occurred	RCP Project Manager	CoC C10
Non-Compliance Report to ESR	Within five days of the date on which the non- compliance was identified	RCP Project Manager	CoC C11
Evidence required for Compliance Report	As requested by ESR for reporting within six months after the commencement of construction of the development, and in the same month each subsequent year	RCP Project Manager	CoC C14
Environmental inspection and progress reports	Ongoing to the RCP Project Manager	RCP Safety and Environmental Coordinator	Section 5.1
Traffic numbers/movements tracking and reports	Monthly	RCP Safety and Environmental Coordinator	СТМР
Report on excessive dust being generated at source and dust leaving the site	When occurs, based on visual inspection	RCP Safety and Environmental Coordinator	CAQMP
Monthly Project Report (including waste management and overall environmental performance of the Project)	Monthly to ESR	RCP Project Manager	Section 3.2
Pre-start checks on plant and equipment and reports to RCP Safety and Environmental Coordinator	Daily and randomly	Plant and Equipment Operators	Section 5.1 CAQMP
Internal HSSE Audit Report	Annually	ESR Representative	Section 5.3

Several of these reports are required by the CoC to be prepared by individuals with certain qualifications or accreditations, as follows:

- The CPESC Report must be prepared by a CPESC.
- The ER monthly and quarterly reports must be prepared by a suitably qualified and experienced person who was not involved in the preparation of the EIS, Response to Submissions (RTS),



and any additional information for the development and is independent from the design and construction personnel for the development.

As noted in Table 5-2, the RCP Safety and Environmental Coordinator is responsible for the preparation of these reports, however if not suitably qualified, the reports will be prepared by suitably qualified consultants contracted to RCP that meet the CoC requirements.

Under SSD 9138102 CoC A36, ESR will provide the ER with the Consultation Register (on a daily basis) and a copy of any consistency assessment for proposed works (before the commencement of the subject work).

The Compliance Reports (required by SSD 9138102 CoC C14) will review the environmental performance of the Project. The Compliance Reports will be prepared in accordance with the Compliance Reporting Post Approval Requirements (DPE, 2020) and must also:

- · identify any trends in the monitoring data
- identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies
- describe what measures will be implemented over the next year to improve the environmental performance of the development.

To prepare these Compliance Reports, ESR will request that RCP provide evidence of compliance with the requirements of the CoC, CEMP and sub-plans. The RCP Project Manager will be responsible for providing the required compliance evidence within the timeframe set by ESR.

Under SSD 9138102 CoC C15, each Compliance Report will be made publicly available by ESR no later than 60 days after submission to the Planning Secretary. ESR will notify the Planning Secretary in writing seven days prior to public availability.

## 5.8 CEMP Review and Revision Program

To meet the requirements of SSD 9138102 CoC D25 for this CEMP and the sub-plans, RCP will implement a review program to:

- monitor and report on the:
  - impacts and environmental performance of the Project
  - effectiveness of the management measures included in the CEMP and sub-plans
- investigate and implement ways to improve the environmental performance of the Project over time.

This review will consider the broader management context of the CEMP and sub-plans including:

- complaints received
- issues raised by stakeholders
- non-compliances identified and reported
- incidents and the Project team response
- Project team structure and resourcing
- recommendations of environmental inspections, audits and previous review (after the initial review).



This review will be undertaken by the RCP Safety and Environmental Coordinator, in consultation with the RCP Project Manager and ESR Representative, on an annual basis commencing one year after the commencement of construction. An Environmental Review Report recommending measures to improve the environmental performance of the Project will be produced by the review.

SSD 9138102 CoC C8 states that all strategies, plans and programs required under the SSD 9138102 Development Consent will be reviewed and the Planning Secretary notified of the review within three months of:

- The submission of a Compliance Report under CoC C14
- The submission of an incident report under CoC C10
- The approval of any modification of the conditions of the SSD 9138102 Development Consent
- The issue of a direction of the Planning Secretary under SSD 9138102 CoC A2(b) which requires a review.

As per SSD 9138102 CoC C9, where documents are revised under the above reviews, the revised documents will be sent to the Planning Secretary for approval within six weeks of the review (or as agreed by the Planning Secretary).

All employees and contractors will be informed of any revisions to the CEMP during toolbox talks.



## Appendix A Development Consent Compliance Matrix


SSD 9138102 Instrument		CEMP Section
PART A -	ADMINSITRATIVE CONDITIONS	
A1	In addition to meeting the specific performance measures and criteria in this consent, all reasonable and feasible measures must be implemented to prevent, and if prevention is not reasonable and feasible, minimise any material harm to the environment that may result from the construction and operation of the development, and any rehabilitation required under this consent.	This CEMP and associated Sub-Plans have been developed to prevent/minimise any material harm to the environment
A2	The development may only be carried out: (a) in compliance with the conditions of this consent; (b) in accordance with all written directions of the Planning Secretary; (c) in accordance with the EIS, RTS, ADR and additional information; (d) in accordance with the Development Layout in Appendix 1; and (e) in accordance with the management and mitigation measures in Appendix 5 (f) in accordance with the Modification Assessments.	This CEMP and associated Sub-Plans have been developed to comply with the CoC, written directions of the Secretary, EIS, RTS, ADR and additional information, Development Layout and management and mitigation measures outlined in Appendix 5 of the Development Consent.
A3	Consistent with the requirements in this consent, the Planning Secretary may make written directions to the Applicant in relation to: (a) the content of any strategy, study, system, plan, program, review, audit, notification, report or correspondence submitted under or otherwise made in relation to this consent, including those that are required to be, and have been, approved by the Planning Secretary; and (b) the implementation of any actions or measures contained in any such document referred to in condition A3(a).	Section 5.8 details when revisions of the CEMP may be undertaken including upon written direction by the Planning Secretary
A4	The conditions of this consent and directions of the Planning Secretary prevail to the extent of any inconsistency, ambiguity or conflict between them and a document listed in condition A2(c) or A2(e). In the event of an inconsistency, ambiguity or conflict between any of the documents listed in condition A2(c) or A2(e), the most recent document prevails to the extent of the inconsistency, ambiguity or conflict.	Noted
A5	This consent lapses five years after the date from which it operates, unless the development has physically commenced on the land to which the consent applies before that date.	Noted
A6	The maximum GFA for development on the site must not exceed the limits in Table 1.	Noted



SSD 913	8102 Instrument	CEMP Section
A7	The date of commencement of each of the following phases of the development must be notified to the Planning Secretary in writing, at least one month before that date, or as otherwise agreed with the Planning Secretary: (a) construction; (b) operation; and (c) cessation of operations.	Noted
A8	If the construction or operation of the development is to be staged, the Planning Secretary must be notified in writing, at least one month before the commencement of each stage (or other timeframe agreed with the Planning Secretary), of the date of commencement and the development to be carried out in that stage.	Noted
A9	<ul> <li>Where conditions of this consent require consultation with an identified party, the Applicant must:</li> <li>(a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and</li> <li>(b) provide details of the consultation undertaken including:</li> <li>(i) the outcome of that consultation, matters resolved and unresolved; and</li> <li>(ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.</li> </ul>	Section 2 Consultation with stakeholders during the preparation of this CEMP was not required. Where required, consultation with stakeholders has occurred and is documented in the relevant Sub-Plan.
A10	<ul> <li>With the approval of the Planning Secretary, the Applicant may:</li> <li>(a) prepare and submit any strategy, plan or program required by this consent on a staged basis (if a clear description is provided as to the specific stage and scope of the development to which the strategy, plan or program applies, the relationship of the stage to any future stages and the trigger for updating the strategy, plan or program);</li> <li>(b) combine any strategy, plan or program required by this consent (if a clear relationship is demonstrated between the strategies, plans or programs that are proposed to be combined); and</li> <li>(c) update any strategy, plan or program required by this consent (to ensure the strategies, plans and programs required under this consent are updated on a regular basis and incorporate additional measures or amendments to improve the environmental performance of the development).</li> </ul>	ESR has prepared and submitted a Staging Letter to the Planning Secretary. This letter identified how the Project is to be staged, including preparing strategies and plans and identifying a program for the staged construction. The letter also identified if a strategy or plan needs to be updated, as ESR move through its proposed staging.



SSD 9138102 Instrument		CEMP Section
A11	If the Planning Secretary agrees, a strategy, plan or program may be staged or updated without consultation being undertaken with all parties required to be consulted in the relevant condition in this consent.	This condition applies to all stages. If an update is required with subsequent stages with a consultation requirement, it will be addressed under this table at the relevant condition.
A12	If approved by the Planning Secretary, updated strategies, plans or programs supersede the previous versions of them and must be implemented in accordance with the condition that requires the strategy, plan or program.	Noted
A14	Unless the Applicant and the applicable authority agree otherwise, the Applicant must:	Noted
	(a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by carrying out the development; and	
	(b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.	
A23	The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the conditions of this consent relevant to activities they carry out in respect of the development.	Section 3.4
A26	All plant and equipment on site, or to monitor the performance of the development, must be:	Section 5 and sub-plans
	(a) Maintained in a proper and efficient condition; and	
	(b) Operated in a proper and efficient manner.	



SSD 9138102 Instrument		CEMP Section
A35	The Applicant must engage an Environmental Representative (ER) to oversee construction of the development. Unless otherwise agreed to by the Planning Secretary, construction of the development must not commence until an ER has been approved by the Planning Secretary and engaged by the Applicant. The approved ER must:	Section 1.2 and Section 3.2
	(a) be a suitably qualified and experienced person who was not involved in the preparation of the EIS, RTS, ADR, and any additional information for the development and is independent from the design and construction personnel for the development;	
	(b) receive and respond to communication from the Planning Secretary in relation to the environmental performance of the development;	
	(c) consider and inform the Planning Secretary on matters specified in the terms of this consent;	
	(d) consider and recommend to the Applicant any improvements that may be made to work practices to avoid or minimise adverse impact to the environment and to the community;	
	(e) review the CEMP required in Condition C2 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this consent and if so:	
	(i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or	
	(ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary/Department for information or are not required to be submitted to the Planning Secretary/Department);	
	(f) regularly monitor the implementation of the CEMP to ensure implementation is being carried out in accordance with the document and the terms of this consent;	
	(g) as may be requested by the Planning Secretary, help plan, attend or undertake audits of the development commissioned by the Department including scoping audits, programming audits, briefings, and site visits;	
	(h) as may be requested by the Planning Secretary, assist the Department in the resolution of community complaints;	
	(i) provide advice to the Applicant on the management and coordination of construction works on the site with adjoining sites in the Mamre Road Precinct in relation to construction traffic management, earthworks and sediment control and noise;	
	(j) attend the Mamre Road Precinct Working Group (see Condition A38) in a consultative role in relation to the environmental performance of the development; and	
	(k) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Quarterly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Quarterly Reports'. The Environmental Representative Quarterly Report must be submitted within seven calendar days following the end of each quarter for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.	



SSD 9138102 Instrument		CEMP Section
A36	The Applicant must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in condition A35 (including preparation of the ER monthly report), as well as:	Section 2.3 and Section 3.2
	(a) the complaints register (to be provided on a daily basis); and	
	(b) a copy of any assessment carried out by the Applicant of whether proposed work is consistent with the consent (which must be provided to the ER before the commencement of the subject work).	
A37	The Planning Secretary may at any time commission an audit of an ER's exercise of its functions under condition A35. The Applicant must:	Section 3.2
	(a) facilitate and assist the Planning Secretary in any such audit; and	
	(b) make it a term of their engagement of an ER that the ER facilitate and assist the Planning Secretary in any such audit.	
A38	Within three months of the commencement of construction of the development and until all components of the development are constructed and operational, the Applicant must establish and participate in a working group, or join and participate in an existing working group, with relevant consent holders in the MRP, to the satisfaction of the Planning Secretary. The purpose of the working group is to consult and coordinate construction works within the MRP to assist with managing and mitigating potential cumulative environmental impacts. The working group must:	Section 3.1 and Section 3.2
	(a) comprise at least one representative of the Applicant, the Applicant's ER, and relevant consent holders in the MRP;	
	(b) meet periodically throughout the year to discuss, formulate and implement measures or strategies to improve monitoring, coordination of the approved industrial developments in the MRP;	
	(c) regularly inform Council, TfNSW, Sydney Water and the Planning Secretary of the outcomes of these meetings and actions to be undertaken by the working group;	
	(d) review the performance of approved industrial developments in the MRP and identify trends in the data with respect to cumulative construction traffic, erosion and sediment control, noise, stormwater management and waterway health objectives under the MRP DCP;	
	(e) review community concerns or complaints with respect to environmental management;	
	(f) identify interim traffic safety measures to manage construction traffic and how these measures will be coordinated, communicated, funded and monitored in the MRP; and	
	(g) provide the Planning Secretary with an update and strategies, if a review under subclause (d) and (e) identifies additional measures and processes are required to be implemented by the working group.	
A39	Three (3) months prior to completion of construction of all components of the development, the Applicant is eligible to exit the working group required under condition A38. The Applicant must:	Section 3.2
	(a) consult with the Planning Secretary;	
	(b) provide confirmation that all components of the development are operational; and	
	(c) advise on the date of the proposed exit.	



SSD 9138102 Instrument		CEMP Section
A40	References in the conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent.	Section 3.3
A41	However, consistent with the conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	Section 5.8
AN1	All licences, permits, approvals and consents as required by law must be obtained and maintained as required for the development. No condition of this consent removes any obligation to obtain, renew or comply with such licences, permits, approvals and consents.	Section 3.3.3
PART B –	SPECIFIC ENVIRONMENTAL CONDITIONS	
B1	Prior to the commencement of construction of the development, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary. The plan must form part of the CEMP required by condition C2 and must: (a) be prepared by a suitably qualified and experienced person(s); (b) be prepared in consultation with Council and TfNSW; (c) detail the measures that are to be implemented to ensure road safety and network efficiency during construction works to: (i) ensure access to the site and road safety and network efficiency is maintained, (ii) manage cumulative construction traffic from other concurrent construction works within the Mamre Road Precinct, and (iii) address necessary interim traffic safety controls and management measures, including consideration of any traffic control measures required to manage traffic entering Mamre Road in the period before Mamre Road/Abbotts Road intersection construction is complete; (d) detail heavy vehicle routes, access and parking arrangements; (e) include a Driver Code of Conduct to: (i) minimise the impacts of earthworks and construction on the local and regional road network; (ii) minimise road traffic noise; and (iv) ensure truck drivers use specified routes, including entering and exiting Mamre Road via Abbotts Road and not Bakers Lane; (f) include a program to monitor the effectiveness of these measures; and (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disrutrious to crutes	CTMP - Appendix J



B2       The Applicant must:       (a) not commence construction until the Construction Traffic Management Plan required by condition B1 is approved by the Planning Secretary; and       CTMP - Apper         (b) implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of construction.       CTMP - Apper         B17       The Applicant must ensure:       (a) internal roads, driveways, and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths, and parking bay dimensions) associated with the development are constructed and maintained in accordance with the latest version of AS2890.1:2004 Parking facilities Off-street car parking (Standards Australia, 2018) and AS 2890.2:2018 Parking facilities Off-street parking for people with disabilities (Standards Australia, 2019).       CTMP - Appen         (b)       the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines;       CTMP - Maper         (c)       the development does not result in any vehicles queuing on the public road network;       (d) heavy vehicles and bins associated with the development are not parked on local roads or footpaths in the vicinity of the site;       (e) all vehicles are wholly contained on site before being required to stop;       (f) all loading of materials is carried out on-site;       (g) all trucks entering or leaving the site form/to Mamre Road must travel via Abbotts Road and not Bakers Lane, until the completion of the utimate upgrade of Aldington Road and delivery of the Southern Link Road or otherwise agreed in writing by Secretary, Council and TfNSW; </th <th>n</th>	n
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(i) all vehicles accessing and departing the site from/to Mamre Road must travel via Abbotts Road and not Bakers Lane, until the completion of the ultimate upgrade of Aldington Road and delivery of the Southern Link Road or otherwise agreed in writing by Secretary, Council and TfNSW;	
(j) use of 30m PBS Level on local roads will require approval from the National Heavy Vehicle Regulator (NHVR) and Council's Asset section.	
B20 The Applicant must: ERSED Control	Plan -
(a) ensure that only VENM, ENM, or other material approved in writing by EPA is brought onto the site; Appendix B	
(b) keep accurate records of the volume and type of fill to be used; and	
(c) make these records available to the Planning Secretary upon request.	



SSD 9138102 Instrument		CEMP Section
B22	<ul> <li>The Applicant must:         <ul> <li>not commence earthworks until the Erosion and Sediment Control Plan required by condition B21 is approved by the Planning Secretary; and</li> <li>implement the most recent version of the Erosion and Sediment Control Plan approved by the Planning Secretary for the duration of earthworks and construction.</li> </ul> </li> </ul>	ERSED Control Plan - Appendix B
B23	The Applicant must ensure delivery and operation of all construction phase erosion and sediment controls on the site is supervised and certified by a CPESC. Monthly audits are to be completed by CPESC and kept on record for the duration of the construction and an additional 12 months following completion of construction works.	ERSED Control Plan - Appendix B
B47	The Applicant must comply with the hours detailed in Table 2 unless otherwise agreed in writing by the Planning Secretary.         Table 2 Hours of Work         Activity       Day       Time         Activity       Day       Time         Barthworks and construction       Saturday       7 am to 6 pm         Coperation       Monday - Finday       7 am to 6 pm         Operation       Monday - Sunday       24 trours	Section 1.3.2
B48	<ul> <li>Works outside of the hours identified in condition B43 may be undertaken in the following circumstances:</li> <li>(a) works that are inaudible at the nearest sensitive receivers;</li> <li>(b) works agreed to in writing by the Planning Secretary;</li> <li>(c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or</li> <li>(d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.</li> </ul>	Section 1.3.2
B49	The development must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented and any activities that could exceed the construction noise management levels must be identified and managed in accordance with the management and mitigation measures in Appendix 5.	CNVMP - Appendix C



SSD 9138102 Instrument		CEMP Section
B50	<ul> <li>The Applicant must prepare a Construction Noise and Vibration Management Plan for the development to the satisfaction of the Planning Secretary. The Plan must form part of a CEMP in accordance with condition C2 and must:</li> <li>(a) be prepared by a suitably qualified and experienced noise expert(s);</li> <li>(b) be prepared in consultation with owners of adjoining residential properties (including those still occupied for residential use in the MRP), include evidence of this consultation and detail how the plan has responded to any issues raised during consultation;</li> <li>(c) describe procedures for achieving the noise management levels in EPA's Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time);</li> <li>(d) describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;</li> <li>(e) include strategies that have been developed with the community for managing high noise generating works; and</li> <li>(f) include a complaints management system that would be implemented for the duration of the development</li> </ul>	CNVMP - Appendix C
B55	Should the Design Verification Report identify that the noise limits specified in Condition B52 and B53 cannot be achieved through the mitigation measures and contingency measures required to be considered under Condition B54, the Applicant must:         (a)       offer to enter into noise agreement(s) with eligible receivers outside of the Mamre Road Precinct where noise limits are assessed to be exceeded         (b)       provide written evidence to the Planning Secretary that an agreement is in place with these receivers.	CNVMP - Appendix C
B60	Prior to the commencement of construction of the development, the Applicant must prepare a Driver Code of Conduct and induction training for the development to minimise road traffic noise. The Applicant must update the Driver Code of Conduct and induction training for construction and operation and must implement the Code of Conduct for the life of the development.	CNVMP - Appendix C and CTMP - Appendix J
B61	<ul> <li>Vibration caused by construction at any residence or structure outside the site must be limited to:</li> <li>(a) for structural damage, the latest version of DIN 4150-3 (1992-02) Structural vibration - Effects of vibration on structures (German Institute for Standardisation, 1999); and</li> <li>(b) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: a technical guideline (DEC 2006) (as may be updated or replaced from time to time).</li> </ul>	CNVMP - Appendix C
B62	Vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified in Condition B61.	CNVMP - Appendix C
B63	The limits in Conditions B61 and B62 apply unless otherwise outlined in a Construction Noise and Vibration Management Plan, approved as part of the CEMP required by Condition C2 of this consent.	CNVMP - Appendix C
B74	The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.	CAQMP - Appendix D



SSD 9138102 Instrument		CEMP Section
B75	<ul> <li>During construction, the Applicant must ensure that:</li> <li>(a) exposed surfaces and stockpiles are suppressed by regular watering;</li> <li>(b) all trucks entering or leaving the site with loads have their loads covered;</li> <li>(c) trucks associated with the development do not track dirt onto the public road network;</li> <li>(d) public roads used by these trucks are kept clean; and</li> <li>(e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.</li> </ul>	CAQMP - Appendix D
B78	The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).	CAQMP - Appendix D
B82	<ul> <li>If any item or object of Aboriginal heritage significance is identified on site:</li> <li>(a) all work in the immediate vicinity of the suspected Aboriginal item or object must cease immediately;</li> <li>(b) a 10m wide buffer area around the suspected item or object must be cordoned off; and</li> <li>(c) Heritage NSW must be contacted immediately.</li> </ul>	HMP - Appendix H
B83	Work in the immediate vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the National Parks and Wildlife Act 1974.	HMP - Appendix H
B84	<ul> <li>If any non-Aboriginal archaeological relics are uncovered during any works being carried out for the development:</li> <li>(a) all work in the immediate vicinity of the suspected relic(s) must cease immediately;</li> <li>(b) Heritage NSW must be contacted immediately; and</li> <li>(c) the suspected relic(s) must be evaluated, recorded and, if necessary, excavated by a suitably qualified and experienced expert in accordance with the requirement of Heritage NSW.</li> </ul>	HMP - Appendix H
B85	Work in the immediate vicinity of any suspected non-Aboriginal archaeological relic(s) must not recommence until this has been authorised by Heritage NSW.	HMP - Appendix H
B86	Prior to, and during, construction works the Applicant must implement the mitigation measures recommended in Section 2.2.5 of the Biodiversity Development Assessment Report prepared by Ecological Australia Pty Ltd, dated 14 April 2022.	CFFMP - Appendix G
B89	The quantities of dangerous goods stored and handled at the site must be below the threshold quantities listed in the Department's Hazardous and Offensive Development Application Guidelines - Applying SEPP 33 at all times.	Section 4.1
B90	The Applicant must store all chemicals, fuels and oils used on-site in appropriately bunded areas in accordance with the requirements of all relevant Australian Standards, and/or EPA's Storing and Handling of Liquids: Environmental Protection - Participants Manual (Department of Environment and Climate Change, 2007).	Section 4.1
B92	The Applicant must implement the Waste Management Plan for the duration of construction and operation.	CWMP - Appendix E



SSD 9138	102 Instrument	CEMP Section
B93	Prior to the commencement of construction of the development, the Applicant must obtain agreement from Council for the design of the waste storage area for the development.	ТВС
B94	Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.	CWMP - Appendix E
B95	The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the latest version of EPA's Waste ClasB4sification Guidelines Part 1: Classifying Waste (EPA, 2014) and dispose of all wastes to a waste management facility or premises lawfully permitted to accept the waste.	CWMP - Appendix E
B96	The Applicant must:	CFFMP - Appendix G
	(a) implement suitable measures to manage pest, vermin, and declared priority weeds on the site; and	
	(b) inspect the site on a regular basis to ensure that these measures are working effectively, and that pests, vermin or priority weeds are not present on site in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area.	
	Note: For the purposes of this condition, priority weed has the same definition of the term in the Biosecurity Act 2015.	
PART C -	ENIVRONMENTAL AMANGEMENT, REPORTING AND AUDITING	
C1	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:	This Plan
(a)	detailed baseline data;	Section 3
(b)	details of:	Section 3.3
	the relevant statutory requirements (including any relevant approval, licence or lease conditions);	
	any relevant limits or performance measures and criteria; and	
	the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	
(c)	a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 4.1
(d)	a program to monitor and report on the:	Section 5.2
	impacts and environmental performance of the development; and	
	effectiveness of the management measures set out pursuant to paragraph (c) above;	
(e)	a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Appendix L
(f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 5.2

**Construction Environmental Management Plan** Aldington and Abbotts Road Upgrade – Phase 1



SSD 9138102 Instrument		CEMP Section
(g)	a protocol for managing and reporting any: incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); complaint; failure to comply with statutory requirements; and	Section 5.5 and 5.6
(h)	a protocol for periodic review of the plan.	Section 5.8
C2	The Applicant must prepare a Construction Environmental Management Plan (CEMP) for the development in accordance with the requirements of condition C1 and to the satisfaction of the Planning Secretary.	This CEMP
C3	As part of the CEMP required under condition C2 of this consent, the Applicant must include the following: (a) Construction Traffic Management Plan (see condition B1); (b) Erosion and Sediment Control Plan (see condition B21); (c) Dam Decommissioning Strategy (see condition B36); (d) Construction Noise and Vibration Management Plan (see condition B50); (e) Unexpected Finds Protocol (see condition B70); (f) Construction Air Quality Management Plan (see condition B76); (g) Site induction training material (see condition B81); (h) Wildlife Management Plan (see condition B87); (i) Community Consultation and Complaints Handling.	Appendices of this CEMP
C4	The Applicant must: (a) not commence construction of the development until the CEMP is approved by the Planning Secretary; and (b) carry out the construction of the development in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	Section 1.3
C8	<ul> <li>Within three months of:</li> <li>(a) the submission of a Compliance Report under condition C14;</li> <li>(b) the submission of an incident report under condition C10;</li> <li>(c) the approval of any modification of the conditions of this consent; or</li> <li>(d) the issue of a direction of the Planning Secretary under condition A2(b) which requires a review,</li> <li>the strategies, plans and programs required under this consent must be reviewed, and the Planning Secretary must be notified in writing of the outcomes of any review.</li> </ul>	Section 5.8



SSD 9138	102 Instrument	CEMP Section
C9	If necessary to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review required under condition C8, or such other timing as agreed by the Planning Secretary. Note: This is to ensure strategies, plans and programs are updated on a regular basis and to incorporate any recommended measures to improve the environmental performance of the development.	Section 5.8
C10	The Planning Secretary must be notified in writing via the Major Projects website immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given, and reports submitted in accordance with the requirements set out in Appendix 6.	Section 5.6.1
C11	The Planning Secretary must be notified in writing via the Major Projects website within seven days after the Applicant becomes aware of any non-compliance.	Section 5.5
C12	A non-compliance notification must identify the development and the application number for it, set out the condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Section 5.5
C13	A non-compliance which has been notified as an incident does not need to also be notified as a non-compliance.	Section 5.5
C14	Within six months after the commencement of construction of the development, and in the same month each subsequent year (or such other timing as agreed by the Planning Secretary) for the duration of construction works, the Applicant must submit a Compliance Report to the Planning Secretary reviewing the environmental performance of the development to the satisfaction of the Planning Secretary. Compliance Reports must be prepared in accordance with the Compliance Reporting Post Approval Requirements (Department 2020) and must also:	Section 5.7
	(a) identify any trends in the monitoring data;	
	(b) Identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	
	(c) describe what measures will be implemented over the next year to improve the environmental performance of the development.	
C15	The Applicant must make each Compliance Report publicly available no later than 60 days after submitting it to the Planning Secretary and notify the Planning Secretary in writing at least seven days before this is done.	Section 5.7



SSD 9138	102 Instrument	CEMP Section
C16	Any condition of this consent that requires the carrying out of monitoring or environmental audit, whether directly or by the way of a plan, strategy, program, is taken to be a condition requiring monitoring or an environmental audit under Division 9.4 of Part 9 of the EP&A Act. This includes conditions in respect of incident notification, reporting, and response, non-compliance notification, compliance reporting and independent auditing.	Section 5 and sub-plans
	Note: For the purposes of this condition, as set out in the EP&A Act, "monitoring" is monitoring of the development to provide data on compliance with the consent or on the environmental impact of the development, and an "environmental audit" is a periodic or particular documented evaluation of the development to provide information or compliance with the consent of the environmental management or impact of the development.	
C17	At least 48 hours before the commencement of construction of the development and for the life of the development, the Applicant must:	Section 2.1
	<ul><li>(a) make the following information and documents (as they are obtained and approved) publicly available on its website:</li><li>i. the documents referred to in Condition A2 of this consent;</li></ul>	
	ii. all current statutory approvals for the development;	
	iii. all approved strategies, plans and programs required under the conditions of this consent;	
	iv. regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the conditions of this consent;	
	v. a comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any conditions of this consent, or any approved plans and programs;	
	vi. a summary of the current stage and progress of the development;	
	vii. contact details to enquire about the development or to make a complaint;	
	viii. a complaints register, updated monthly;	
	ix. the Compliance Report of the development;	
	x. any other matter required by the Planning Secretary; and	
	(b) keep such information up to date, to the satisfaction of the Planning Secretary.	
PART D -	EXTERNAL ROAD WORKS	
Note: The F	Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for management plans	Noted
D25	Prior to the commencement of the External Road Works, the Applicant must prepare a Construction Environmental Management Plan (CEMP) for the External Road Works in accordance with the requirements of Condition C1 and to the satisfaction of the Planning Secretary. The CEMP must include the following:	This Plan
(a)	be prepared in consultation with Council;	Appendix N

**Construction Environmental Management Plan** Aldington and Abbotts Road Upgrade – Phase 1



SSD 9138	3102 Instrument	CEMP Section
(b)	a traffic management plan prepared in consultation with TfNSW and Council, detailing the measures to ensure road safety and network efficiency during the External Road Works, a Driver Code of Conduct, a program to monitor the effectiveness of the measures and adherence to specified routes, and procedures for notifying residents and local schools of any disruptions to routes;	Appendix J
(c)	a noise and vibration management plan prepared in accordance with the Construction Noise and Vibration Guideline, TfNSW 2023 and Interim Construction Noise Guideline, DECC 2009, describing measures developed in consultation with affected residents to manage high noise and vibration intensive works, and include an out of hours work protocol. Measures may include notifications, respite periods, scheduling of noisy works, temporary barriers, quieter plant or alternative construction methods, verification monitoring and/or provision of alternative accommodation;	Appendix C
(d)	an air quality management plan prepared in accordance with the Good Practice Guide for the Assessment and Management of Air Pollution from Road Transport Projects, CASANZ 2023, detailing the location and duration of dust controls, details of monitoring and triggers for implementation of additional dust controls if required;	Appendix D
(e)	an erosion and sediment control plan prepared in accordance with Managing Urban Stormwater: Soils and Construction – Volume 1: Blue Book (Landcom, 2004) and detail the measures to ensure the construction phase water quality targets in the Technical Guidance for Achieving Wianamatta South Creek Stormwater Management Targets (Technical Guidance) (NSW Government, 2022) are met;	Appendix B
(f)	mitigation measures recommended in the Biodiversity Development Assessment Report for the Mamre and Abbotts Road Intersection prepared by Fraser Ecological and dated 3 June 2024;	Appendix G
(g)	a cultural heritage management plan including an unexpected finds protocol, prepared in consultation with Registered Aboriginal Parties;	Appendix H
(h)	an unexpected finds procedure to manage any unexpected contamination encountered during the works, including details of testing and off-site disposal in accordance with the POEO Act and associated regulations; and	Appendix E
(i)	a contingency plan detailing measures to deal with unexpected issues arising during the works, such as excessive dust, noise, traffic, water quality impacts and unfavourable weather conditions.	Appendix L
D26	The Applicant must:	
(a)	not commence construction of the External Road Works until the CEMP is approved by the Planning Secretary; and	Noted
(b)	carry out the construction of the External Road Works in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	Noted

## Appendix B Erosion and Sediment Control Plan



### Progressive Erosion & Sediment Control Plans: Stage 1.

### **NOTES - Administration & General**

- 1. This progressive plan is to be read in conjunction with the SWMP, ESCP, CEMP, relevant specifications, and procedures.
- 2. Works programming to maximise the mitigation of erosion by the early implementation of permanent drainage measures, temporary and permanent soil surface stabilisation measures, and minimising the area and duration of soil disturbance.
- 3. Bureau of Meteorology weather forecasting to be monitored daily for the local 7-Day weather outlook. Site management measures to be planned for imminent storm/rainfall/flood/wind events include, but are not limited to;
  - avoiding additional soil disturbance immediately prior to an event.
  - provision of additional erosion and sediment controls in critical locations,
  - installing, repairing, and/or adjusting 'clean' (off site water) and 'dirty' (on site) water drainage measures,
  - desilting and re-instating sediment controls as required,
  - implementing stockpile protection measures,
  - stabilising and sealing disturbed soil surfaces,
  - minimising dry soil handling in windy conditions,
  - evacuating or protecting erodible materials in lower lying area.
- 4. The plan is to be revised as necessary (i.e., progression of works, altered site conditions or weather). The controls depicted are subject to staging and the controls may be progressively implemented or removed according to progression of works.
- 5. All erosion and sediment controls generally to be constructed in accordance with 'Blue Book' specifications and standard drawings & RMS Specifications being:
  - MANAGING URBAN STORM WATER: SOILS AND CONSTRUCTION 4<sup>th</sup> EDITION, LANDCOM, MARCH 2004;
  - MANAGING URBAN STORM WATER: SOILS AND CONSTRUCTION VOLUME 2D MAIN ROAD CONSTRUCTION, DEC, 2008;
  - RMS QA SPECIFICATION G36 ENVIRONMENTAL MANAGEMENT (SOIL AND WATER MANAGEMENT PLAN)
  - RMS QA SPECIFICATION G38 SOIL AND WATER MANAGEMENT (EROSION AND SEDIMENT CONTROL PLAN).
- 6. Substitute materials may be utilised in the construction of erosion or sediment controls where functionality is not affected, i.e., compacted mulch bunds in place of sediment fences, stabilised earth berms in place of excavated drains near underground services or timber pegs in place of star pickets where electrical or gas hazards exist.
- 7. Personnel constructing controls to have demonstrated competence and experience. Specific awareness training and workshops to be undertaken by personnel with direct involvement with erosion and sediment control. Toolbox talks to regularly focus on erosion and sediment control for specific works, associated risks, potential impacts and mitigation measures.
- 8. All existing vegetated or undisturbed areas outside of the works area to be regarded as Exclusion zones and to be delineated with fencing, tape, or other markers, as required. All site personnel to be instructed to avoid Exclusion zones or damaging installed controls.

### **Erosion Control**

- 9. During the process of clearing, maintain a control bund of cleared vegetation to control run-off as works progress. Boundary sediment controls to be installed as soon as practical as the clearing front advances. Maintain clearing slash and minimise disturbance of ground vegetation, where possible.
- 10. Prior to commencement of topsoil stripping in a catchment, install sediment basins, sediment sumps & traps, surface drains, sediment filter devices and other surface runoff control measures to control runoff onto, across, and from the works zones to prevent the loss of sediment from the site. Note topsoil stripping can be undertaken within the footprints of the controls described above.
- 11. Construction zones in constrained areas to be managed in smaller, defined sub-catchments to reduce slope lengths and minimise sediment loads to boundary controls.
- 12. Stripped topsoil to be stripped and stockpiled generally as per SD 4-1. Any viable stripped topsoil to be stored in stockpiles, preferably less than two metres in height.
- 13. Short term on-site stockpiles to be located away from drains and flow lines and be controlled with sediment fence or storm covers.
- 14. Any significant (long & steep) cut/fill batters should be progressively overlaid with Rolled Erosion Control Products (RECP's such as jute mesh, coir fibre mesh, etc), mulching, Organic Fibre Mulches (OFM's) or geobinders to reduce erosion and rilling, prior to permanent stabilisation with cover crops, mulching or other long-term surface protection.
- 15. Vehicles transporting bulk materials on public roads are to correctly cover loads to prevent loss of load and/or dust generation.
- 16. Temporary controls in addition to those shown may be required at strategic locations as required by the progression of works or weather conditions

Version	Drawn by	Date	Signed	Reviewed by	Date
01	A. Littlewood	26/08/2024	pap		
02	A. Littlewood	01/11/2024	125		

### Water Management (Cont'd)

- 17. Maximise the interception and diversion of 'clean' (off site water) away from works areas. The 'clean' flows to be conveyed in stabilised drainage lines to suitable discharge points. The flows to be discharged to off-site areas at non-erosive velocities with adequate diffusers, level spreaders, etc. Ensure drainage paths and controls are adjusted as required to maximise the separation of 'clean' (off site) and 'dirty' (on site) water flows through/off site.
- 18. Flows paths with high velocity flows over unstabilised areas to be controlled with
  - applied soil surface stabilisers i.e., geotextile lining, applied soil binders, coarse rock lining, etc.
  - suitably constructed check dams placed at intervals to maximise flow suppression and settling of coarse sediment.
- 19. Where possible, provide sandbag or other bunding controls at on-site collection points & pit inlets to prevent flows bypassing controls to downslope areas.
- 20. Protect all existing and constructed inlets to pits & culverts from sediment ingress.
- 21. Where practical, maintain and/or improve existing stabilised drains to assist in the diversion of 'clean' (off site) flows.
- 22. Flooded excavations, ponded water, etc. to be extracted where required and utilised for site purposes or treated to achieve acceptable water quality prior to discharge.

### Sediment Control

- 23. Vegetation to be progressively cleared to minimise disturbance by area and duration. Cleared vegetation to be windrowed parallel to the contour until mulching/removal to control flows across cleared areas.
- 24. The installation of preliminary sediment controls such as perimeter sediment fencing, windrowed vegetation/mulch, excavated sediment traps, check dams, straw bale filters, etc, will be implemented prior to soil disturbance within the catchment.
- 25. Accumulated water in sediment traps/sumps cannot be pumped, discharged, or released from site without completing a dewatering checklist.
- 26. Appropriate sediment tracking controls such as an aggregate/geotextile apron, shaker grid, etc. will be installed at exit points from the site. Personnel to monitor roadways & tracked sediments to be removed as required.
- 27. Personnel to ensure visual dust monitoring is maintained during works, and dust suppression is undertaken regularly. Dust control to be regularly conducted with water carts and soil stockpiles to suitably covered. Additional dust suppression measures to be utilised to minimise dust pollution during periods of high winds.
- 28. Temporary 'dirty' water drainage will be adjusted progressively to maximise flows to sediment control devices. Contamination
- 29. Excavation of sub-soils to be inspected and monitored as works proceeds, to identify potential contamination. Any potentially contaminated soils to be stripped or excavated separately and transported directly to the designated stockpile, treatment area or licensed waste facility.
- 30. Potentially contaminated soils are to be stored within an appropriately bunded area and covered with heavy grade plastic or other impermeable covers for the duration of rainfall.

### 31. Ground disturbance and machinery/vehicle movements in potentially contaminated areas will be minimised to essential works. Monitoring & Reporting and Inspection & Maintenance

- 32. Inspections of erosion and sediment controls will occur following rainfall events >10mm (daily on workdays or as soon as practical during site shutdown periods), with any necessary repairs implemented as soon as possible.
- 33. Relevant checklists and records to be maintained noting details such as rainfall received, repairs to controls and amounts of sediments cleaned from controls.
- 34. Sediment traps, sumps and filters are to be desilted when 60% of storage capacity is reached.

### 35. All site personnel to report any spill, leaks, or other failure to relevant response staff as soon as possible. Stabilisation

- 36. Erosion and sediment controls are to be maintained until the relevant catchments are stabilised, re-vegetated, or sealed adequately to achieve soil surface protection factors as per the 'Blue Book' and SWMP requirements.
- 37. Completed earthworks areas will be backfilled and compacted in a staged manner as soon as possible. Adjacent disturbed areas will be suitably trimmed and stabilised as required.
- 38. Stabilisation of areas is to occur progressively in conjunction with the completion of earthworks.
- 39. Areas subject to heavy compaction and disturbance from vehicle movements and machinery to be scarified to a depth >100mm prior to topsoiling and seeding.





### Aldington Road & Abbotts Road Upgrade

Aldington Road & Abbotts Road Upgrade – Response to Reviewer Comments by ErSed Environmental Pty Ltd

Plan Reference	Location/Item	Comment	Response	Action	Reviewer Comments & Date
Stage 1 - Abbotts Road	Abbotts Road - Chainage 350 to 500	the colour coding is staging? can these be included in the key?	The PESCP has been prepared for Stage 1 only. The traffic barrier locations and drainage arrows are sufficient to delineate the work area and illustrate the associated drainage for Stage 1 works. We acknowledge that the preparation of the Stage 2 and Stage 3 PESCPs is currently on hold, pending the resolution of design and approval issues.	Noted. The Stage 1 PESCP will be updated with the Staging Legend when the Stage 2 & Stage 3 PESCPs are prepared.	



### Aldington Road & Abbotts Road Upgrade

Progressive ESCP - Stage 1: Abbotts Road - Chainage 95 to 165



Legend									
'Clean' Water – Sheet Flows	>	Piped Drainage	==	Stabilised Topsoil Berm (geotextile/jute/seed)		Sediment basin / large sump	Filter bag or sediment fence inlet filter – gully pit	Controlled site access	
'Clean' Water – Concentrated Flow/Drain	$\rightarrow$	"Clean' water exclusion bank/berm		Stabilised spillway or geotextile lined drain		Filter bag / rock & shade cloth sediment filter	Compacted mulch bund	Stabilised Haul Road/Compound/Access Track	
'Dirty' Water - Concentrated Flow/Drain	$\rightarrow$	Geotextile lined drain		Vegetated drain Rock lined drain	90999999999 95955555555	Compacted Mulch / Rock & Geotextile / or topsoil sediment trap	Coir Log/s Straw bale or coir log filter	Traffic Barrier	
'Dirty' Water – Sheet Flows	>	Level Spreader / Diffuser	<u> </u>	Coarse rock / sandbag check dam		Excavated sediment trap with spill weir	Sediment Fence Geotextile Apron	Vegetated filter	





Progressive ESCP - Stage 1: Abbotts Road - Chainage 165 to 350



Legend									
'Clean' Water – Sheet Flows	>	Piped Drainage	==\$	Stabilised Topsoil Berm (geotextile/jute/seed)	••••	Sediment basin / large sump	Filter bag or sediment fence inlet filter – gully pit	Controlled site access	
'Clean' Water – Concentrated Flow/Drain	$\rightarrow$	"Clean' water exclusion bank/berm		Stabilised spillway or geotextile lined drain		Filter bag / rock & shade cloth sediment filter	Compacted mulch bund	Stabilised Haul Road/Compound/Access Track	
'Dirty' Water - Concentrated Flow/Drain	$\rightarrow$	Geotextile lined drain		Vegetated drain Rock lined drain	90990999999 55555555555	Compacted Mulch / Rock & Geotextile / or topsoil sediment trap	Coir Log/s Straw bale or coir log filter	Traffic Barrier	
'Dirty' Water – Sheet Flows	>	Level Spreader / Diffuser		Coarse rock / sandbag check dam		Excavated sediment trap with spill weir	Sediment Fence Geotextile Apron	Vegetated filter	





### Aldington Road & Abbotts Road Upgrade

Progressive ESCP - Stage 1: Abbotts Road - Chainage 350 to 500



Legend									
'Clean' Water – Sheet Flows	>	Piped Drainage	==\$	Stabilised Topsoil Berm (geotextile/jute/seed)		Sediment basin / large sump	Filter bag or sediment fence inlet filter – gully pit	Controlled site access	
'Clean' Water – Concentrated Flow/Drain	$\rightarrow$	"Clean' water exclusion bank/berm		Stabilised spillway or geotextile lined drain		Filter bag / rock & shade cloth sediment filter	Compacted mulch bund	Stabilised Haul Road/Compound/Access Track	
'Dirty' Water - Concentrated Flow/Drain	$\rightarrow$	Geotextile lined drain		Vegetated drain Rock lined drain	95959595995 5555555555	Compacted Mulch / Rock & Geotextile / or topsoil sediment trap	Coir Log/s Straw bale or coir log filter	Traffic Barrier	
'Dirty' Water – Sheet Flows	>	Level Spreader / Diffuser		Coarse rock / sandbag check dam		Excavated sediment trap with spill weir	Sediment Fence Geotextile Apron	Vegetated filter	





Progressive ESCP - Stage 1: Aldington Road - Chainage 40 to 90



Legend									
'Clean' Water – Sheet Flows	>	Piped Drainage	==	Stabilised Topsoil Berm (geotextile/jute/seed)	••••	Sediment basin / large sump	Filter bag or sediment fence inlet filter – gully pit	Controlled site access	
'Clean' Water – Concentrated Flow/Drain	$\rightarrow$	"Clean' water exclusion bank/berm		Stabilised spillway or geotextile lined drain		Filter bag / rock & shade cloth sediment filter	Compacted mulch bund	Stabilised Haul Road/Compound/Access Track	
'Dirty' Water - Concentrated Flow/Drain	$\rightarrow$	Geotextile lined drain		Vegetated drain Rock lined drain	929292929999 555555555555	Compacted Mulch / Rock & Geotextile / or topsoil sediment trap	Coir Log/s Straw bale or coir log filter	Traffic Barrier	
'Dirty' Water – Sheet Flows	>	Level Spreader / Diffuser		Coarse rock / sandbag check dam		Excavated sediment trap with spill weir	Sediment Fence Geotextile Apron	Vegetated filter	





### Aldington Road & Abbotts Road Upgrade

Progressive ESCP - Stage 1: Aldington Road - Chainage 90 to 260



Legend									
'Clean' Water – Sheet Flows	>	Piped Drainage	==\$	Stabilised Topsoil Berm (geotextile/jute/seed)		Sediment basin / large sump	Filter bag or sediment fence inlet filter – gully pit	Controlled site access	
'Clean' Water – Concentrated Flow/Drain	$\rightarrow$	"Clean' water exclusion bank/berm		Stabilised spillway or geotextile lined drain		Filter bag / rock & shade cloth sediment filter	Compacted mulch bund	Stabilised Haul Road/Compound/Access Track	
'Dirty' Water - Concentrated Flow/Drain	$\rightarrow$	Geotextile lined drain		Vegetated drain Rock lined drain	9292929292929 55555555555	Compacted Mulch / Rock & Geotextile / or topsoil sediment trap	Coir Log/s Straw bale or coir log filter	Traffic Barrier	
'Dirty' Water – Sheet Flows	>	Level Spreader / Diffuser		Coarse rock / sandbag check dam		Excavated sediment trap with spill weir	Sediment Fence Geotextile Apron	Vegetated filter	



### **Standard Drawings**



### **Standard Drawings**



### **Standard Drawings**



# Appendix C Construction Noise and Vibration Management Plan

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### Mamre - Abbotts Intersection Upgrade (MAIU) and Aldington -Abbotts Road Upgrade (AARU)

**Construction Noise and Vibration Management Plan** 

### LOG-E c/o AT&L

Level 7, 153 Walker Street North Sydney NSW 2060

Prepared by:

**SLR Consulting Australia** 

SLR Project No.: 610.31166.00000

Client Reference No.: R07

3 February 2025

Revision: v1.5

Making Sustainability Happen

### **Revision Record**

Revision	Date	Prepared By	Checked By	Authorised By
v1.5	3 February 2025	Joseph Spagnol	Steven Luzuriaga	Steven Luzuriaga
v1.4	21 January 2025	Joseph Spagnol	Steven Luzuriaga	Steven Luzuriaga
v1.3	5 December 2024	Joseph Spagnol	Steven Luzuriaga	Steven Luzuriaga
v1.2	11 October 2024	Joseph Spagnol	Steven Luzuriaga	Steven Luzuriaga
v1.1	13 August 2024	Joseph Spagnol	Steven Luzuriaga	Steven Luzuriaga
v1.0	2 August 2024	Joseph Spagnol	Steven Luzuriaga	Steven Luzuriaga

### **Basis of Report**

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with LOG-E c/o AT&L (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

### **Table of Contents**

Basi	s of Report	i
1.0	Introduction	5
1.1	Procedure for Implementing this CNVMP	5
1.2	Statutory Requirements	6
2.0	Development Overview	12
2.1	Mamre Road and Abbotts Road Intersection Upgrade (MAIU)	12
2.2	Aldington Road and Abbotts Road Upgrade (AARU)	12
2.3	Nearest Sensitive Receivers	14
3.0	Existing Environment	16
4.0	Assessment Criteria	17
4.1	Construction Noise and Vibration Guidelines	17
4.2	Interim Construction Noise Guideline	17
4.2.1	Residential Receivers	17
4.2.2	? Other Sensitive' Land Uses and Commercial Receivers	18
4.2.3	Sleep Disturbance	19
4.2.4	NML Summary	19
4.3	Construction Road Traffic Noise Guidelines	20
4.4	Vibration Guidelines	21
4.4.1	Human Comfort Vibration	21
4.4.2	Effects on Building Contents	22
4.4.3	Structural and Cosmetic Damage Vibration	22
4.4.4	Heritage Buildings or Structures	24
4.4.5	General Vibration Screening Criteria	24
4.4.6	Minimum Working Distances for Vibration Intensive Works	25
5.0	Construction Noise and Vibration Assessment	26
5.1	Construction Activities	26
5.1.1	Confirmation of Construction Activities Prior to Commencement	27
5.2	Hours of Construction	27
5.3	Out of Hours Work	27
5.4	Construction Noise Predictions	28
5.5	Construction Vibration	33
5.5.1	Cosmetic Damage Assessment	35
5.5.2	Puman Comfort Vibration Assessment	35
5.5.3	B Heritage Vibration Assessment	

5.6	Cumulative Impacts	36
6.0	Mitigation and Management Measures	37
6.1	Measures Identified Through Community Consultation	40
6.2	Additional Mitigation Measures	41
6.3	Monitoring	43
6.3.1	Construction Noise Monitoring	43
6.3.2	Construction Vibration Monitoring	44
6.4	Community Consultation	46
6.5	Complaints Management	46
6.6	Contingency Plan	47
6.7	Internal Audits	48
6.8	Roles and Responsibilities	48
6.8.1	Contractor's Project Manager	48
6.8.2	Contractor's Environmental Coordinator	48
6.8.3	All Workers on Site	48
7.0	Review and Improvement of Noise Management Plan	49

### **Tables in Text**

Table 1	Assessment against the Development Conditions of Consent
Table 2	Nearest Sensitive Residential Receivers 14
Table 3	Summary of Unattended Noise Monitoring Results
Table 4	Construction Noise and Vibration Standards and Guidelines 17
Table 5	ICNG NMLs for Residential Receivers 18
Table 6	ICNG NMLs at 'Other Sensitive' Land Uses 19
Table 7	Project Specific Noise Management Levels 20
Table 8	RNP Criteria for Assessing Construction Vehicles on Public Roads
Table 9	Vibration Dose Values for Intermittent Vibration
Table 10	Transient Vibration Guide Values - Minimal Risk of Cosmetic Damage
Table 11	Recommended Minimum Working Distances from Vibration Intensive Equipment
Table 12	Construction Activities 26
Table 13	Exceedance Bands and Impact Colouring 28
Table 14	Overview of NML Exceedances – Day Standard Hours 29
Table 15	Overview of NML Exceedances - All Receiver Types (Out-of-Hours Work) 31
Table 16	Environmental Management Controls for Construction Noise and Vibration 37



Table 17	Additional Noise Mitigation Measures	41
Table 18	Additional Mitigation Measures Matrix - Construction Noise	42
Table 19	Contingency Management Plan	47

### **Figures in Text**

Figure 1	Project Location and Sensitive Receivers	13
Figure 2	Graph of Transient Vibration Guide Values for Cosmetic Damage	23
Figure 3	Construction Vibration Assessment	34
Figure 4	Indicative Real-Time Noise Monitoring Locations	44

### Appendices

- Appendix A Acoustic Terminology
- Appendix B Modelling Scenarios and Equipment
- Appendix C Noise Impact Maps

Appendix D OOHW Protocol

- D.1 Relevant Conditions of Consent
- D.2 Justification of Out-of-Hours Work
- D.3 Out-of-Hours Work Approval
- D.4 Out-of-Hours Work Risk Profiles

Appendix E Community Consultation Summary

### 1.0 Introduction

SLR Consulting Australia Pty Ltd (SLR) has been engaged by Land Owners Group – East (LOG-E) to prepare a Construction Noise and Vibration Management Plan (CNVMP) for construction work associated with the Mamre Road and Abbotts Road Intersection Upgrade (MAIU) and Aldington Road and Abbotts Road Upgrade (AARU) (SSD-9138102).

The information and modelling detailed in the Construction Noise and Vibration Impact Assessment (CNVIA) for MAIU (*610.31166.00000-R01-v1.0-20230330*) and AARU (*610.31166.00000-R02-v1.0-20230330*) inform the assessments and mitigation advice provided in this CNVMP. Revised construction scenarios that were not discussed in the CNVIA for MAIU and AARU are presented and discussed in this CNVMP. For all construction within 200 Aldington Road Industrial Estate (SSD-10479) a separate CNVMP has been prepared (refer to *610.31010.00000-R01-v1.2-20230811*).

Specific acoustic terminology is used in this report. An explanation of common acoustic terms is provided in **Appendix A**.

SLR is suitably qualified to produce this CNVMP and SLR staff are members of the Australian Acoustical Society (AAS). SLR is also a member firm of the Association of Australasian Acoustical Consultants (AAAC).

### 1.1 Procedure for Implementing this CNVMP

This general procedure will be followed to implement this CNVMP on site:

- Review the location of the nearest sensitive receivers (refer to **Section 1.2**) and the applicable Noise Management Levels (NMLs) (refer to **Section 4.2.4**).
- Prior to commencement of construction phases/activities, confirm the assumptions regarding construction activities/locations/equipment/methodology detailed in **Section 5.1** are accurate and remain valid. Where different methodology or equipment is proposed, further validation of the predicted noise levels will be undertaken in accordance with **Section 5.1.1**.
- Review the predicted noise levels for the proposed construction activities in the CNVIAs and this CNVMP for the AARU and MAIU works to confirm the predicted impacts for each activity.
- Where the noise impacts are predicted to be:
  - Below the relevant NMLs undertake best practice noise management measures to minimise noise impacts.
  - Above the NMLs implement all feasible and reasonable noise mitigation and management measures relevant to that activity (refer to Section 6.0) to reduce the impacts (to below the NMLs where possible). Measures considered/implemented must be documented for inclusion in the Construction Contractor's Monthly Report
  - Above 75 dBA implement mitigation and management measures for highly noise affected receivers as per Section 6.0 and Section 6.1, including consideration of respite periods, duration respite, and alternative accommodation. Consultation with the individual highly noise affected residences must be undertaken to discuss the appropriate mitigation/respite solution for high noise works and must be documented for inclusion in the Construction Contractor's Monthly Report.

- Review the minimum working distances for vibration intensive plant (refer to **Section 4.4.6**) and the vibration assessment results (refer to **Section 5.5**). Where vibration intensive plant is proposed to be used within the minimum working distances of vibration sensitive structures/receivers implement feasible and reasonable mitigation and management measures as per **Section 6.0** and **Section 6.1**.
- Undertake noise and/or vibration monitoring in accordance with **Section 6.3**, where required.
- Resolve any noise/vibration issues during construction works as per the contingency plan (refer to **Section 6.6**), and document and report incidents and complaints as per the requirements in **Sections 6.6** and **6.5**, respectively.

### 1.2 Statutory Requirements

The development's consent conditions (SSD-9138102) were issued by NSW Government Department of Planning, Housing and Infrastructure (DPHI, formerly known as Department of Planning and Environment) on 21 April 2023. The consent conditions are applicable to the construction of external road works, including the upgrade of Mamre Road/Abbotts Road intersection, widening of Abbotts Road and widening a section of Aldington Road.

The development consent conditions for construction within 200 Aldington Road Industrial Estate (SSD-10479) are replicated in **Table 1**. These consent conditions were provided by the Minister for Planning and Public Spaces in dated May 2023.

**Table 1** also details where each of the consent conditions have been addressed in this CNVMP.

Condition	Conditions			Response / Section Reference	
SSD-9138	102				
Hours of V	Vork				
B47.	The Ap agreed	able 2, unless otherwise			
		Activity	Day	Time	
	Eart	hworks and construction Operation	Monday – Friday Saturday Monday – Sunday	7 am to 6 pm 8 am to 1 pm 24 hours	Section 5.2
D29.	The Ext a)	The External Road Works must be undertaken during the following hours: a) 7 am to 6 pm Monday to Friday;			
	b) C)				
B48. & D30.	Works outside of the hours identified above may be undertaken in the following circumstances:				Section 5.2
	a) works that are inaudible at the nearest sensitive receivers;				
	b) works agreed to in writing by the Planning Secretary;				
	<ul> <li>for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or</li> </ul>				
	<ul> <li>where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.</li> </ul>				

### Table 1 Assessment against the Development Conditions of Consent

Condition	Conditio	Response / Section Reference	
D31.	Notwith underta approve	Section 6.0	
	a)		
	b) asphalting; and		
	C)	other works required to be completed at night for safety reasons, as detailed in an approved CTMP.	
Construct	ion Nois	e Limits	
B49.	The dev manage 2009) (a reasona could ex manage Append	Section 6.0	
Construct	ion Nois	e and Vibration Management Plan	
B50.	The App for the of form pa	olicant must prepare a Construction Noise and Vibration Management Plan development to the satisfaction of the Planning Secretary. The Plan must rt of a CEMP in accordance with condition C2 and must	This CNVMP
	a)	be prepared by a suitably qualified and experienced noise expert(s);	Section 1.0
	b)	be approved by the Planning Secretary prior to the commencement of construction of each stage of the development;	-
	c)	describe procedures for achieving the noise management levels in EPA's Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time);	Section 4.2 Section 6.0
	d)	describe the measures to be implemented to manage high noise generating works such as piling, in close proximity to sensitive receivers;	Section 6.0 to Section 6.8
	e)	include strategies that have been developed with the community for managing high noise generating works; and	Section 6.4 Appendix E
	f)	describe the community consultation undertaken to develop the strategies in condition B50(e).	Section 6.4 Appendix E
	g)	include a complaints management system that would be implemented for the duration of the development.	Section 6.5
B51.	The Ap	olicant must:	
	a)	not commence earthworks until the Construction Noise and Vibration Management Plan required by condition B50 is approved by the Planning Secretary; and	This CNVMP
	b)	implement the most recent version of the Construction Noise and Vibration Management Plan approved by the Planning Secretary for the duration of earthworks and construction.	
Vibration	Conditio	n Surveys	
D32.	Prior to	the commencement of the External Road Works, the Applicant must:	Section 6.0
	a)	undertake building condition surveys for properties located within 25 metres of the works; and	
	b)	prepare a dilapidation survey of the heritage post adjacent to Mamre Road.	
D33.	The App that is d	plicant must repair, or pay the full costs associated with repairing property amaged by carrying out the External Road Works.	Section 6.0

Condition	Conditions	Response / Section Reference						
Vibration (	Criteria							
B61. & D34.	Vibration caused by construction at any residence or structure outside the site must be limited to: a) for structural damage, the latest version of <i>DIN 4150-3 (1992-02)</i> <i>Structural vibration - Effects of vibration on structures</i> (German Institute for Standardisation, 1999); and	Section 4.4.3 Section 4.4.4						
	<ul> <li>b) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: a technical guideline (DEC, 2006) (as may be updated or replaced from time to time).</li> </ul>	Section 4.4.1						
B62. & D35.	Vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria specified in condition B61/condition D34.	Section 4.4.3 Section 4.4.6 Section 5.5						
B63. & D36.	The limits in conditions B61/D34 and B62/D35 apply unless otherwise outlined in a Construction Noise and Vibration Management Plan, approved as part of the CEMP required by condition C2/D25 of this consent.	Supplementary Criteria in <b>Section 4.4</b>						
Environme	ental Management							
C1.	<ul> <li>Management Plan Requirements         Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:         a) detailed baseline data;     </li> </ul>							
	<ul> <li>b) details of:</li> <li>i. the relevant statutory requirements (including any relevant approval, licence or lease conditions);</li> <li>ii. any relevant limits or performance measures and criteria; and</li> <li>iii. the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;</li> </ul>	Section 1.2 Section 4.0 and Appendix B Section 6.0						
	<li>c) a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;</li>	Section 6.0						
	<ul> <li>a program to monitor and report on the:</li> <li>i. impacts and environmental performance of the development; and</li> <li>ii. effectiveness of the management measures set out pursuant to paragraph (c) above;</li> </ul>	Section 6.3						
	<ul> <li>a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;</li> </ul>	Section 6.6						
	<li>f) a program to investigate and implement ways to improve the environmental performance of the development over time;</li>	Section 7.0						
	<ul> <li>g) a protocol for managing and reporting any:</li> <li>i. incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);</li> <li>ii. complaint;</li> <li>iii. failure to comply with statutory requirements; and</li> </ul>	Section 6.6 Section 6.5 Section 6.4						
	h) a protocol for periodic review of the plan.	Section 7.0						
Condition	Conditions		Response / Section Reference					
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	<b>Note</b> : the Planning Secretary may wa unnecessary or unwarranted for parti	iirements if they are as						
Construct	Construction Environmental Management Plan							
D25.	<ul> <li>Prior to the commencement of the Exprepare a Construction Environmental Road Works in accordance with the measatisfaction of the Planning Secretary</li> <li>c) a noise and vibration manage Construction Noise and Vibration Moise Guidelin developed in consultation with and vibration intensive works. Measures may include notifit works, temporary barriers, quethods, verification monitor accommodation;</li> </ul>	This CNVMP Section 4.0 Section 5.0 Section 6.0						
SSD-10479	)							
Operation	of Plant and Equipment							
C24.	<ul><li>All plant and equipment used on site, Development, must be:</li><li>a) Maintained in a proper and eff</li><li>b) Operated in a proper and eff</li></ul>	Section 6.1						
Hours of V	Vork							
D48.	The Applicant must comply with the h agreed in writing by the Planning Sec Table 5 Hours of Work	ours detailed in Table 5 cretary.	5, unless otherwise	Section 5.2				
	Activity	Dav	Time					
	Earthworks and construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm					
D49.	<ul> <li>Work outside of the hours identified in following circumstances:</li> <li>a) works that are inaudible</li> <li>b) works agreed to in writin</li> <li>c) for the delivery of mater Police Force or other at where it is required in an emergency prevent environmental harm.</li> </ul>	Section 5.2						
Construct	Construction Noise Limits							
D50.	The Stage 1 development must be commanagement levels detailed in the Int 2009) (as may be updated or replace reasonable noise mitigation measures could exceed the construction noise managed in accordance with the CNV	Section 4.2.1 Section 5.0 Section 6.0						
Construct	on Noise and Vibration Managemen	t Plan						
D51.	The Applicant must prepare a Constr (CNVMP) for the Stage 1 development The CNVMP must form part of a CEM	uction Noise and Vibrat nt to the satisfaction of t /IP in accordance with c	ion Management Plan the Planning Secretary. condition E2 and must:	This CNVMP				

Condition	Conditions	Response / Section Reference	
	a)	be prepared by a suitably qualified and experienced noise expert whose appointment has been endorsed by the Planning Secretary;	Section 1.0
	b)	describe procedures for achieving the noise management levels in EPA's <i>Interim Construction Noise Guideline</i> (DECC, 2009) (as may be updated or replaced from time to time);	Section 4.2 Section 6.0
	c)	Section 6.0 to Section 6.8	
	d)	include strategies that have been developed with the community for managing high noise generating works; and	Section 6.4
	e)	describe the community consultation undertaken to develop the strategies in condition D51(d).	Section 6.4
	f)	include a complaints management system that would be implemented for the duration of the development.	Section 6.5
D52.	The Applica	nt must:	Refer to CEMP
	a)	not commence construction of any relevant stage until the CNVMP required by condition D51 is approved by the Planning Secretary; and	and Section 7.0
	b)	implement the most recent version of the CNVMP approved by the Planning Secretary for the duration of construction.	
Vibration	Criteria		
D59.	Vibration car be limited to	Section 4.4.3 Section 4.4.4	
	a)	for structural damage, the criteria set in the latest version of DIN 4150-3:2016-12 Vibration in Buildings – Part 3: Effects on Structures (German Institute for Standardisation, 2016); and	
	b)	for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: a technical guideline (DEC, 2006) (as may be updated or replaced from time to time).	Section 4.4.1
D60.	Vibratory col buildings un specified in o	mpactors must not be used closer than 30 metres from residential less vibration monitoring confirms compliance with the vibration criteria condition D59.	Section 4.4.3 Section 4.4.6 Section 5.5
D61.	The limits in Construction required by o	conditions D59 and D60 apply unless otherwise outlined in a Noise and Vibration Management Plan, approved as part of the CEMP condition E2 of this consent.	Supplementary Criteria in <b>Section 4.4</b>
Environm	ental Manage	ment	
E1.	Managemer Managemen	nt Plan Requirements It plans required under this consent must be prepared in accordance	Refer to CNVMP 610.31010.00000- R01-v1.2-
	c)	detailed baseline data:	20230811
	d)	details of:	
	u)	i. the relevant statutory requirements (including any relevant	Section 1.2
		approval, licence or lease conditions);	Section 4.0 and
		ii. any relevant limits or performance measures and criteria; and	Appendix B
		to judge the performance of, or guide the implementation of, the development or any management measures;	Section 6.0
	e)	a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 6.0

Condition	Conditions		Response / Section Reference
	f)	<ul> <li>a program to monitor and report on the:</li> <li>i. impacts and environmental performance of the development; and</li> <li>ii. effectiveness of the management measures set out pursuant to paragraph (c) above;</li> </ul>	Section 6.3
	g)	a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Section 6.6
	<ul> <li>h) a program to investigate and implement ways to improve the environmental performance of the development over time;</li> </ul>		Section 7.0
	i)	<ul> <li>a protocol for managing and reporting any:</li> <li>i. incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria);</li> <li>ii. complaint;</li> <li>iii. failure to comply with statutory requirements; and</li> </ul>	Section 6.6 Section 6.5 Section 6.4
	j) <b>Note</b> : the Pl unnecessary	a protocol for periodic review of the plan. anning Secretary may waive some of these requirements if they are y or unwarranted for particular management plans	Section 7.0

# 2.0 Development Overview

The MAIU and AARU project works are being progressed by the developer group known as Land Owners Group – East (LOG-E) and are linked to their proposed developments which are accessed via Mamre Road and Abbotts Road intersection as well as Abbotts Road and Aldington Road.

The general location of the MAIU and AARU project construction works and surrounding receivers are provided in **Figure 1**. The development overviews for MAIU and AARU are provided in **Section 2.1** and **Section 2.2**.

# 2.1 Mamre Road and Abbotts Road Intersection Upgrade (MAIU)

Abbotts Road is Penrith City Council controlled and Mamre Road is a state road controlled by Transport for NSW (TfNSW). The concept design for the upgrade of Mamre Road (for TfNSW) /Abbotts Road intersection is expected to include widening 700 m south of the intersection and 400 m north of the intersection. This intersection includes widening within the western end of Lot 10 and Lot 11 DP250002 (north of Abbotts Road), which is developer owned (by ESR). There is no widening within the private property to the south of Abbotts Road (Lot 2 DP250002).

### 2.2 Aldington Road and Abbotts Road Upgrade (AARU)

Aldington and Abbotts Roads are controlled by Penrith City Council. The dimensions of the Aldington and Abbotts Road upgrades are established in the Mamre Road Precinct DCP.

The proposed construction project is currently at detailed design stage and includes:

- widening the road beyond the existing road reserve (5-10 m either side on Aldington Road),
- signalised intersections
- earthworks including raising and lowering road,
- stormwater (new and larger culverts under and adjacent to road),
- relocation of services (above and underground),
- new services (including water, electricity, communications),
- site sheds, material storage as required for road construction project,
- temporary works as necessary to facilitate construction.



### 2.3 Nearest Sensitive Receivers

In the CNVIAs for the MAIU and AARU construction works, sensitive receivers in the area surrounding the Project had been identified and Noise Catchment Areas (NCAs) had been defined. The NCAs reflect the existing ambient noise environment of that area, as well as the noise sensitivity of the surrounding land uses.

Receivers potentially sensitive to noise and vibration have been categorised as residential buildings, commercial/industrial buildings, or 'other sensitive' land uses which includes educational institutions, childcare centres, medical facilities, places of worship, outdoor recreation areas, etc. Receiver types, locations and NCAs are shown in **Figure 1**. The nearest sensitive residential receivers are also detailed in **Table 2**.

The area is changing rapidly with numerous Development Applications submitted in the surrounding area. This suggests that the status of the residential receivers, particularly within the Mamre Road Precinct, could be subject to change at short notice: these could be acquired by neighbouring developers, or demolished, or both during the construction works. The areas that are subject to Development Applications are also shown in **Figure 1**.

Label	Address	Lot/DP
R01	54-72 Aldington Road Kemps Creek NSW 2178	43/DP708347
R02	53 Aldington Road Kemps Creek NSW 2178	38/DP708347
R03	269 Aldington Road Kemps Creek NSW 2178	8/DP253503
R04	284-288 Aldington Road Kemps Creek NSW 2178	141/DP1033686
R05	282 Aldington Road Kemps Creek NSW 2178	142/DP1033686
R06	287 Aldington Road Kemps Creek NSW 2178	11/DP296455
R07	1016-1028 Mamre Road Kemps Creek NSW 2178	2/DP250002
R08	272 Aldington Road Kemps Creek NSW 2178	15/DP253503
R09	1005-1023 Mamre Road Kemps Creek NSW 2178	40/DP258414
R10	20 Aldington Road Kemps Creek NSW 2178	44/DP708347
R11	983 Mamre Road Kemps Creek NSW 2178	39/DP258414
R12	967-981 Mamre Road Kemps Creek NSW 2178	38/DP258414
R13	1066-1078 Mamre Road Kemps Creek NSW 2178	5/DP250002
R14	930-966 Mamre Road Kemps Creek NSW 2178	51/DP259135
R15	949-965 Mamre Road Kemps Creek NSW 2178	37/DP258414
R16	931 Mamre Road Kemps Creek NSW 2178	36/DP258414
R17	1097-1099 Mamre Road Kemps Creek NSW 2178	1/DP30265
R18	235-245 Clifton Avenue Kemps Creek NSW 2178	53/DP734584
R19	230-234 Clifton Avenue Kemps Creek NSW 2178	54/DP734584
R20	61 Bowood Road Mount Vernon NSW 2178	406/DP848749
R21	83-87 Bowood Road Mount Vernon NSW 2178	408/DP848749
R22	89-93 Bowood Road Mount Vernon NSW 2178	409/DP848749

#### Table 2 Nearest Sensitive Residential Receivers

Label	Address	Lot/DP
R23	95-99 Bowood Road Mount Vernon NSW 2178	410/DP848749
R24	131 Bowood Road Mount Vernon NSW 2178	131/DP803478
R25	1-5 The Appian Way Mount Vernon NSW 2178	151/DP803478
R26	143-147 Capitol Hill Drive Mount Vernon NSW 2178	136/DP803478
R27	149-153 Capitol Hill Drive Mount Vernon NSW 2178	1372/DP1137513
R28	1101-1105 Mamre Road Kemps Creek NSW 2178	2/DP30265
R29	1107-1115 Mamre Road Kemps Creek NSW 2178	3/DP30265
R30	1096-1112 Mamre Road Mount Vernon NSW 2178	31/DP30265
R31	1114 Mamre Road Mount Vernon NSW 2178	322/DP1130961
R32	30 Kerrs Road Mount Vernon NSW 2178	1182/ DP1038440
R33	226-230 Kerrs Road Mount Vernon NSW 2178	1160/DP1061191
R34	919-929 Mamre Road Kemps Creek NSW 2178	35/DP258414
R35	1116-1118 Mamre Road Mount Vernon NSW 2178	321/DP1130961
R36	1120-1126 Mamre Road Mount Vernon NSW 2178	33/DP30266
R37	1128-1132 Mamre Road Mount Vernon NSW 2178	341/DP1003059
R38	1134-1136 Mamre Road Mount Vernon NSW 2178	342/DP1003059
R39	20-29 Kerrs Road Mount Vernon NSW 2178	117/DP31924
R40	236-244 Kerrs Road Mount Vernon NSW 2178	360/DP863909
R41	1117 Mamre Road Kemps Creek NSW 2178	4/DP30265
R42	1127-1133 Mamre Road Kemps Creek NSW 2178	5/DP30265
R43	1135-1141 Mamre Road Kemps Creek NSW 2178	6/DP30265
R44	1143-1147 Mamre Road Kemps Creek NSW 2178	7/DP30265
R45	1149-1155 Mamre Road Kemps Creek NSW 2178	8/DP30265
R46	203-229 Clifton Avenue Kemps Creek NSW 2178	55/DP 734584
R47	901 Mamre Road Kemps Creek NSW 2178	33/DP258414
R48	44 Kerrs Road Mount Vernon NSW 2178	14/DP1043590
R49	45 Kerrs Road Mount Vernon NSW 2178	13/DP1043590
R50	54 Kerrs Road Mount Vernon NSW 2178	1213/DP1045425
R51	231-235 Kerrs Road Mount Vernon NSW 2178	1161/DP1061191
R52	258 Clifton Aveenue Kemps Creek NSW 2178	8/DP812284
R53	1164-1168 Mamre Road Mount Vernon NSW 2178	1/DP1175090

# 3.0 Existing Environment

The existing noise environment in the area is typically dominated by road traffic noise from Mamre Road, with rural ambient noise becoming dominant at distances further back from existing roads. Industrial noise from existing premises also influences the noise environment at receivers close to those premises.

As outlined in the CNVIAs for the MAIU and AARU construction works, previously measured existing noise levels from nearby noise assessments have been used for this project. The noise monitoring locations are shown in **Figure 1** and the measured levels are summarised in **Table 3**.

ID	NCA	Address		Measured	d Noise	e Levels (dBA) <sup>1</sup>		
			Background Noise (RBL)			Average Noise (LAeq)		
			Day	Evening	Night	Day	Evening	Night
L01 <sup>2</sup>	NCA01	141-153 Aldington Road, Kemps Creek	34	33	29	44	41	41
L02 <sup>3</sup>	NCA02	230-242 Aldington Road, Kemps Creek	32	31	30	50	35	35
L03 <sup>4</sup>	NCA03	286 Aldington Road, Kemps Creek	34	34	33	47	48	46
L04 <sup>5</sup>	NCA04	62 Mount Vernon Road, Mount Vernon	36	36	33	50	44	43
L05 <sup>5</sup>	NCA05	26 Cressy Road, Mount Vernon	42	40	35	53	48	47
L06 <sup>5</sup>	NCA06	981 Mamre Road, Kemps Creek	48	46	34	61	59	57
L07 <sup>6</sup>	NCA07	Bakers Lane, Kemps Creek	44	43	37	-	-	-
L087	NCA08	Western boundary of Oakdale West	39	38	36	47	46	45

Table 3 Summary of Unattended Noise Monitoring Results

Note 1: The assessment periods are the daytime which is 7 am to 6 pm Monday to Saturday and 8 am to 6 pm on Sundays and public holidays, the evening which is 6 pm to 10 pm, and the night-time which is 10 pm to 7 am on Monday to Saturday and 10 pm to 8 am on Sunday and public holidays. See the NSW EPA Noise Policy for Industry.

Note 2: Measured data at L01 from SSD-10448 noise assessment (SLR report 610.19127-R02-v1.3, dated October 2020).

Note 3: Measured data at L02 from SSD-10479 noise assessment (White Noise Acoustics report 20141\_200819, dated 26 August 2022). SLR deployed a logger within this catchment area as part of this assessment which was considerably affected by extraneous noise (insects). Consequently SLR has conservatively adopted the noise levels from L02 for this assessment.

Note 4: Measured data at L03 from SSD-9138102 noise assessment (RWDI report 2101343 Version B, dated February 2021).

Note 5: Measured data at L04, L05 and L06 from SSD-46983729 noise assessment (SLR Report 610.30893.00100-R02v1.0, dated October 2022).

Note 6: Measured data at L07 from SSD-9522 noise assessment (AcousticWorks report 1018022 R01P, dated May 2019).

Note 7: Measured data at L08 from SSD-7348 noise assessment (SLR report 610.15617-R2 Revision 4, dated June 2017).

# 4.0 Assessment Criteria

### 4.1 **Construction Noise and Vibration Guidelines**

The standards and guidelines relevant to the development are listed in **Table 4**. These guidelines aim to protect the community and environment from excessive noise and vibration impacts during construction of projects.

#### Table 4 Construction Noise and Vibration Standards and Guidelines

Guideline/Policy Name	Where Guideline Used
Interim Construction Noise Guideline (ICNG) (DECC, 2009)	Assessment of airborne noise impacts on sensitive receivers
Construction Noise and Vibration Guideline (CNVG) (Roads and Maritime Services, 2016)	Assessment and management protocols for noise and vibration impacts
Road Noise Policy (RNP) (DECCW, 2011)	Assessment of construction traffic impacts
BS 7385 Part 2-1993 Evaluation and measurement for vibration in buildings Part 2, BSI, 1993	Assessment of vibration impacts (structural damage) to non-heritage sensitive structures
DIN 4150:Part 3-2016 Structural vibration – Effects of vibration on structures, Deutsches Institute fur Normung, 2016	Screening assessment of vibration impacts (structural damage) to heritage sensitive structures, where the structure is found to be unsound
Assessing Vibration: a technical guideline (DEC, 2006)	Assessment of vibration impacts on sensitive receivers

### 4.2 Interim Construction Noise Guideline

The NSW *Interim Construction Noise Guideline* (ICNG) is used to assess and manage impacts from construction noise on residences and other sensitive land uses in NSW.

The ICNG contains procedures for determining project-specific Noise Management Levels (NMLs) for sensitive receivers based on the existing background noise in the area. The 'worst-case' noise levels from the construction of a project are predicted and then compared to the NMLs in a 15-minute assessment period to determine the likely impact of the project.

The NMLs are not mandatory limits, however, where construction noise levels are predicted or measured to be above the NMLs, feasible and reasonable work practices to minimise noise emissions are to be investigated.

#### 4.2.1 Residential Receivers

The ICNG approach for determining NMLs at residential receivers is shown in Table 5.

Table 5	ICNG NMLs for Residential Receivers
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Time of Day	NML LAeq(15minute)	How to Apply
Standard Construction Hours Monday to Friday 7:00 am to 6:00 pm Saturday 8:00 am to 1:00 pm No work on Sundays or public bolidays	Noise affected RBL <sup>1</sup> + 10 dB Highly Noise	<ul> <li>The noise affected level represents the point above which there may be some community reaction to noise</li> <li>Where the predicted or measured LAeq(15minute) is greater than the noise affected level, the proponent should apply all feasible and reasonable work practices to meet the noise affected level</li> <li>The proponent should also inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.</li> <li>The Highly Noise Affected (HNA) level represents the point above which there may be strong community reaction to a strong community reaction to a strong community reaction.</li> </ul>
	Affected 75 dBA	<ul> <li>above which there may be strong community reaction to noise</li> <li>Where noise is above this level, the relevant authority (consent, determining or regulatory) may require respite periods by restructuring the hours that the very noisy activities can occur, taking into account:</li> <li>Times identified by the community when they are less sensitive to noise (such as before and after school for works near schools or mid-morning or mid-afternoon for works near residences</li> <li>If the community is prepared to accept a longer period of construction in exchange for restrictions on construction times.</li> </ul>
Outside Standard Construction Hours	Noise affected RBL + 5 dB	<ul> <li>A strong justification would typically be required for works outside the recommended standard hours</li> <li>The proponent should apply all feasible and reasonable work practices to meet the noise affected level</li> <li>Where all feasible and reasonable practises have been applied and noise is more than 5 dB above the noise affected level, the proponent should negotiate with the community.</li> </ul>

Note 1: The RBL is the Rating Background Level and the ICNG refers to the calculation procedures in the NSW Industrial Noise Policy (INP). The INP has been superseded by the NSW EPA Noise Policy for Industry (NPfl).

#### 4.2.2 Other Sensitive' Land Uses and Commercial Receivers

The NMLs for 'other sensitive' receivers are shown in Table 6.

#### Table 6 ICNG NMLs at 'Other Sensitive' Land Uses

Land Use	Noise management level LAeq(15minute) (dBA) (applied when the property is in use)						
	Internal	External					
ICNG 'other sensitive' receivers							
Classrooms at schools and other educational institutions	45	55 <sup>1</sup>					
Hospital wards and operating theatres	45	65 <sup>2</sup>					
Places of worship	45	55 <sup>1</sup>					
Active recreation areas (characterised by sporting activities and activities which generate noise)	-	65					
Passive recreation areas (characterised by contemplative activities that generate little noise)	-	60					
Commercial	-	70					
Industrial	-	75					
Non-ICNG 'other sensitive' receivers	Non-ICNG 'other sensitive' receivers						
Childcare Centres	40	50 <sup>1</sup>					

Note 1: It is assumed that these receivers have windows partially open for ventilation which results in internal noise levels being around 10 dB lower than the external noise level.

Note 2: It is assumed that these receivers have fixed windows which conservatively results in internal noise levels being around 20 dB lower than the external noise level.

### 4.2.3 Sleep Disturbance

A method for assessing sleep disturbance is contained in the NPfI. Although the NPfI sleep disturbance criteria relates to industrial noise, it is also considered relevant for reviewing potential impacts from construction noise as a screening criterion to identify the need for further assessment. The NPfI notes that a detailed maximum noise level assessment should be undertaken where a project results in night-time noise levels that exceed 52 dBA LAmax or the prevailing background level plus 15 dB, whichever is the greater.

Work will generally be limited to the standard daytime construction hours, in accordance with ICNG and Conditions of Consent. Due to the nature of the work, some out-of-hours work (e.g., weekend or nights) will also be required (refer to **Table 12**). Where out-of-hours work does occur, the sleep disturbance screening level will be applied.

### 4.2.4 NML Summary

The construction NMLs are summarised in **Table 7**. Out of hours NMLs would be applicable to works undertaken outside the ICNG standard construction hours.

NCA	Receiver	Monitoring Measured RBL <sup>1</sup> –			NML (L <sub>Aeq</sub> (15minute) – dBA)				Sleep	
	Туре	Location	dBA		Standard Out of Hours Construction (RBL+5dB) Hours (RBL+10dB)		Disturbance Screening Level <sup>2</sup> (L <sub>Amax</sub> dB)			
			Day	Eve.	Night	Day	Day	Eve.	Night	Night
NCA01	Residential	L01	35 <sup>5</sup>	33	30 <sup>5</sup>	45	40	38	35	52
NCA02	Residential	L02	35 <sup>5</sup>	31	30	45	40	36	35	52
NCA03	Residential	L03	35 <sup>5</sup>	34	33	45	40	39	38	52
NCA04	Residential	L04	36	36	33	46	41	41	38	52
NCA05	Residential	L05	42	40	35	52	47	45	40	52
NCA06	Residential	L06	48	46	34	58	53	51	39	52
NCA07	Residential	L07	44	43	37	54	49	48	42	52
NCA08	Residential <sup>4</sup>	L08	39	38	36	49	44	43	41	52
All	Place of Worship	n/a				External noise level 55 dBA when in use <sup>3</sup>				n/a
	Commercial	n/a				External noise level 70 dBA when in use <sup>3</sup>			n/a	
	Educational	n/a			External noise level 55 dBA when in use <sup>3</sup>			n/a		
	Childcare Centres	n/a				External noise when in use <sup>3</sup>	level 5	0 dBA		n/a

#### Table 7 Project Specific Noise Management Levels

Note 1: RBL = Rating Background Level.

Note 2: Sleep disturbance screening level is RBL+15 dB or 52 dBA, whichever is higher.

Note 3: The criterion is specified as an internal noise level for this receiver category. As the noise model predicts external noise levels, it has been conservatively assumed that these receiver types have openable windows and external noise levels are therefore 10 dB higher than the corresponding internal level, which is generally considered representative of windows being partially open for ventilation.

Note 4: No residential receivers have been identified in NCA08

Note 5: The NPfI minimum RBL value has been used due to the measured RBL being below the NPfI minimum value.

### 4.3 **Construction Road Traffic Noise Guidelines**

The potential impacts from construction traffic on public roads are assessed under the NSW EPA *Road Noise Policy* (RNP) and Roads and Maritime (now Transport for NSW) Construction Noise and Vibration Guideline (CNVG).

An initial screening test is first applied to evaluate if existing road traffic noise levels are expected to increase by more than 2.0 dB as a result of construction traffic. Where this is considered likely, further assessment is required using the RNP base criteria shown in **Table 8.** 

The CNVIAs predicted construction traffic to result in a minimal increase (i.e. less than 2 dB) in the overall traffic noise levels along the construction haulage routes. As such, construction traffic noise impacts have not been assessed further.

Road	Type of Project/Land Use	Assessment Criteria (dBA)			
Category		Daytime (7 am – 10 pm)	Night-time (10 pm – 7 am)		
Freeway/ arterial/ sub-arterial roads	Existing residences affected by additional traffic on existing freeways/arterial/sub-arterial roads generated by land use developments	LAeq(15hour) 60 (external)	LAeq(9hour) 55 (external)		
Local roads	Existing residences affected by additional traffic on existing local roads generated by land use	LAeq(1hour) 55 (external)	LAeq(1hour) 50 (external)		

Table 8	RNP Criteria for Assessing Construction Vehicles on Public Roads
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### 4.4 Vibration Guidelines

developments

The effects of vibration from construction works can be divided into three categories:

- Those in which the occupants of buildings are disturbed (human comfort)
- Those where building contents may be affected (building contents)
- Those where the integrity of the building may be compromised (structural or cosmetic damage).

#### 4.4.1 Human Comfort Vibration

People can sometimes perceive vibration impacts when vibration generating construction works are located close to occupied buildings.

Vibration from construction works tends to be intermittent in nature and the EPA's *Assessing Vibration: a technical guideline* (2006) provides criteria for intermittent vibration based on the Vibration Dose Value (VDV). The 'preferred' and 'maximum' VDVs for human comfort are shown in **Table 9**.

Table 9	Vibration	Dose	Values f	for	Intermittent	Vibration
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Building Type	Assessment Period	Vibration Dose Value <sup>1</sup> (m/s <sup>1.75</sup> )					
		Preferred	Maximum				
Critical Working Areas (eg operating theatres or laboratories)	Day or night-time	0.10	0.20				
Residential	Daytime	0.20	0.40				
	Night-time	0.13	0.26				
Offices, schools, educational institutions and places of worship	Day or night-time	0.40	0.80				
Workshops	Day or night-time	0.80	1.60				

Note 1: The VDV accumulates vibration energy over the daytime and night-time assessment periods, and is dependent on the level of vibration as well as the duration.

### 4.4.2 Effects on Building Contents

People perceive vibration at levels well below those likely to cause damage to building contents. For most receivers, the human comfort vibration criteria are the most stringent and it is generally not necessary to set separate criteria for vibration effects on typical building contents.

Exceptions to this can occur when vibration sensitive equipment, such as electron microscopes, are located in buildings near construction works. No such equipment has been identified in the study area.

### 4.4.3 Structural and Cosmetic Damage Vibration

The Roads and Maritime Services (RMS, now TfNSW) *Construction Noise and Vibration Guideline* (CNVG) provides guidance regarding cosmetic damage criteria for buildings to be applied on road construction projects in NSW, and refers to:

- Australian Standard AS 2187: Part 2-2006 "*Explosives Storage and Use Part 2: Use of Explosives*"
- BS 7385 Part 2-1993 "*Evaluation and measurement for vibration in buildings Part 2*" (referenced in text as BS 7385-2)
- DIN 4150 Part 3–2016 (of particular reference for heritage structures) (referenced in text as DIN 4150-3)

### 4.4.3.1 British Standard 7385 Part 2-1993

In terms of the most recent relevant vibration damage criteria, Australian Standard AS 2187: Part 2-2006 *Explosives - Storage and Use - Part 2: Use of Explosives* recommends the frequency dependent guideline values and assessment methods given in BS 7385 Part 2-1993 *Evaluation and measurement for vibration in buildings Part 2* as they "are applicable to Australian conditions".

The standard sets guide values for building vibration based on the lowest vibration levels above which damage has been credibly demonstrated. These levels are judged to give a minimum risk of vibration-induced damage, where the minimal risk for a named effect is usually taken as a 95% probability of no effect.

Sources of vibration that are considered in the Standard include demolition, piling, ground treatments (e.g., compaction), construction equipment, tunnelling, road and rail traffic and industrial machinery.

The recommended limits (guide values) for transient vibration to ensure minimal risk of cosmetic damage to residential and industrial buildings are shown in **Table 10** and **Figure 2**.

Line	Type of Building	Peak Component Particle Velocity in Frequency Range of Predominant Pulse								
		4 Hz to 15 Hz	15 Hz and Above							
1	Reinforced or framed structures Industrial and heavy commercial buildings	50 mm/s at 4 Hz and abo	ve							
2	Unreinforced or light framed structures Residential or light commercial type buildings	15 mm/s at 4 Hz increasing to 20 mm/s at 15 Hz	20 mm/s at 15 Hz increasing to 50 mm/s at 40 Hz and above							

Table 10	Transient Vibrat	ion Guide Values	s - Minimal Risk (	of Cosmetic Damage
				o oonnotio Dunnugo

The standard states that the guide values in **Table 10** relate predominantly to transient vibration which does not give rise to resonant responses in structures and low-rise buildings.

Where the dynamic loading caused by continuous vibration is such as to give rise to dynamic magnification due to resonance, especially at the lower frequencies where lower guide values apply, then the guide values in **Table 10** may need to be reduced by up to 50%. The proposed activities are considered to have the potential to cause dynamic loading in some structures (eg neighbouring commercial developments) and it may therefore be appropriate to reduce the transient values by 50%.

Figure 2 Graph of Transient Vibration Guide Values for Cosmetic Damage



In the lower frequency region where strains associated with a given vibration velocity magnitude are higher, the guide values for building types corresponding to Line 2 are reduced. Below a frequency of 4 Hz where a high displacement is associated with the relatively low peak component particle velocity value, a maximum displacement of 0.6 mm (zero to peak) is recommended. This displacement is equivalent to a vibration velocity of 3.7 mm/s at 1 Hz.

The standard goes on to state that minor damage is possible at vibration magnitudes that are greater than twice those given in **Table 10**, and major damage to a building structure may occur at values greater than four times the tabulated values.

Fatigue considerations are also addressed in the standard and it is concluded that unless calculation indicates that the magnitude and number of load reversals are significant (in respect of the fatigue life of building materials) then the guide values in **Table 10** should not be reduced for fatigue considerations.

In order to assess the likelihood of cosmetic damage due to vibration, AS 2187 specifies that vibration measured should be undertaken at the base of the building and the highest of the orthogonal vibration components (transverse, longitudinal and vertical directions) should be compared with the criteria curves presented in **Table 10**.

It is noteworthy that extra to the guide values nominated in **Table 10**, the standard states that:

"Some data suggests that the probability of damage tends towards zero at 12.5 mm/s peak component particle velocity. This is not inconsistent with an extensive review of the case history information available in the UK."

Also that:

"A building of historical value should not (unless it is structurally unsound) be assumed to be more sensitive."

### 4.4.4 Heritage Buildings or Structures

For continuous long-term vibration or repetitive vibration with the potential to cause fatigue effects, DIN 4150-3 provides a Peak Component Particle Velocity value of 2.5 mm/s for buildings of great intrinsic value (e.g. heritage listed buildings) as a safe limit (as measured at the topmost floor), below which even superficial cosmetic damage is not to be expected.

Heritage listed buildings and structures should be considered on a case-by-case basis but as noted in BS 7385-2 should not be assumed to be more sensitive to vibration, unless structurally unsound. Where a heritage building is deemed to be "structurally unsound" following an assessment from a structural engineer (or other suitably qualified person), the more stringent DIN 4150-3 limits can be considered.

Two heritage structures have been identified nearby the Project site:

- Heritage listed house at 282 Aldington Rd, Kemps Creek NSW (approximately 150 m from the Project)
- Heritage listed post at 269 Aldington Rd, Kemps Creek NSW (approximately 20 m from the Project)

It is noted that the heritage building at 282 Aldington Rd burnt down and was reconstructed in 1999 and is currently deemed structurally sound. The condition of the heritage listed post at 269 Aldington Rd has not yet been assessed. The construction vibration assessment is presented in **Section 5.5**.

### 4.4.5 General Vibration Screening Criteria

The Transport for NSW (TfNSW) *Construction Noise and Vibration Strategy* elaborates on the vibration criteria in the Roads and Maritime Services (RMS, now TfNSW) *Construction Noise and Vibration Guideline* (CNVG) and specifies general vibration screening criteria based on BS 7385: Part 2 – 1993. It notes that for most construction activities involving intermittent vibration such as rock breakers, piling rigs, vibratory rollers, excavators and the

like, vibration predominantly occurs at frequencies greater than 4 Hz and therefore specifies the following conservative vibration damage screening levels:

- Reinforced or heavy frame structures: 25 mm/s
- Unreinforced or light frame structures: 7.5 mm/s

At locations where the predicted and/or measured vibration levels are greater than shown above, a more detailed analysis of the building structure, vibration source, dominant frequency and dynamic characteristics of the structure would be required to determine the applicable safe vibration levels.

#### 4.4.6 Minimum Working Distances for Vibration Intensive Works

Minimum working distances for typical vibration intensive construction equipment are provided in the CNVG and are shown in **Table 11**. The minimum working distances are for both cosmetic damage (from BS 7385-2 and DIN 4150-3) and human comfort at residential receivers (from the NSW EPA *Assessing Vibration: a technical guide*). The minimum working distances are based on empirical data which suggests that where works are further from receivers than the quoted minimum distances then impacts are not considered likely.

Plant Item	Rating/Description		Minimum Distance	
		Cos	metic Damage	Human
		Residential and Light Commercial (BS 7385)	Heritage Items (DIN 4150, Group 3)	Response (NSW EPA Guideline)
Vibratory Roller	<50 kN (1–2 tonne)	5 m	11 m	15 m to 20 m
	<100 kN (2-4 tonne)	6 m	13 m	20 m
	<200 kN (4–6 tonne)	12 m	25 m	40 m
	<300 kN (7–13 tonne)	15 m	31 m	100 m
	>300 kN (13–18 tonne)	20 m	40 m	100 m
	>300 kN (>18 tonne)	25 m	50 m	100 m
Small Hydraulic Hammer	300 kg (5 to 12 t excavator)	2 m	5 m	7 m
Medium Hydraulic Hammer	900 kg (12 to 18 t excavator)	7 m	15 m	23 m
Large Hydraulic Hammer	1,600 kg (18 to 34 t excavator)	22 m	44 m	73 m
Vibratory Pile Driver	Sheet piles	2 m to 20 m	5 m to 40 m	20 m
Piling Rig – Bored	≤ 800 mm	2 m (nominal)	5 m	4 m
Jackhammer	Hand held	1 m (nominal)	3 m	2 m

Table 11	<b>Recommended Minimum Working Distances from Vibration Intensive</b>
	Equipment

The minimum working distances are indicative and will vary depending on the particular item of equipment and local geotechnical conditions. The distances apply to cosmetic damage of typical buildings under typical geotechnical conditions.

## 5.0 Construction Noise and Vibration Assessment

The potential construction noise levels from the Project have been predicted using ISO 9613:2 algorithm in SoundPLAN noise modelling software. The model includes ground topography, buildings and representative noise sources from the Project.

### 5.1 Construction Activities

Noise modelling scenarios have been determined based on key Project noise generating stages, supplied by the Project team. A detailed description of each work scenario is provided in **Table 12**.

The assessment uses 'realistic worst-case' scenarios to determine the impacts from the noisiest 15-minute period that are likely to occur for each work scenario, as required by the ICNG. Sound power levels (LW) and quantities of the construction equipment used for modelling are listed in **Appendix B**.

ID	Construction Scenario	Description	Assessment Period <sup>1,2,3</sup>
W.001	Mobilisation, Site Establishment and Traffic Switches	Delivery and placement of barriers, removal of line marking / spraying of new lines, installing reflective pavement markers, and removing / installing road signs.	Standard Hours / OOHW
W.002a	Utility Relocations & Drainage Infrastructure	Saw-cutting of asphalt, trenching, placing pits / pipes / conduits, backfilling, and pavement restoration. The sawing will be done first in OOHW Period 1, before 10 PM.	Standard Hours / OOHW1
W.002b	Utility Relocations & Drainage Infrastructure (OOHW2)	Trenching, placing pits / pipes / conduits, backfilling, and pavement restoration. The concrete saw will not operate in OOHW Period 2.	OOHW2
W.003a	Corridor clearing	A combination of excavator and chainsaw work. Material will be stockpiled for shredding / mulching / grinding during standard construction hours.	Standard Hours
W.003b	Corridor clearing (OOHW)	A combination of excavator and chainsaw work. Shredding / mulching / grinding will not occur during OOHW periods.	OOHW
W.004	Bulk earthworks	Excavation and earthwork	Standard Hours
W.005	Kerb and footpath	Saw-cutting of asphalt, placing road base, and placing concrete.	Standard Hours / OOHW
W.006	Subbase and base	Saw-cutting of asphalt, placing road base, and temporarily restoring the asphalt.	Standard Hours / OOHW
W.007	Asphalting	Delivery of raw materials. Placement of final road surface material. Saw cutting	Standard Hours / OOHW
W.008	Road furniture installation	Signposting and line marking.	Standard Hours / OOHW

#### Table 12 Construction Activities

Note 1: Standard Construction Hours - Mon-Fri (7am - 6pm), Saturdays (8am - 1pm)

Note 2: Out of Hours Work (OOHW) - Period 1 (OOHW1) Mon-Fri (6pm - 10pm), Saturdays (7am-8am) and (1pm- 10pm), Sundays/Public Holidays (8am-6pm)

Note 3: Out of Hours Work (OOHW) - Period 2 (OOHW2) Mon-Fri (10pm - 7am), Saturdays (10pm - 8am), Sundays/Public Holidays (6pm - 7am)

### 5.1.1 Confirmation of Construction Activities Prior to Commencement

Prior to commencement of the construction work, the methodology and equipment will be reviewed and confirmation provided that the assumptions in the CNVMP remain valid. Where different methodology or equipment is proposed, further validation of the predicted noise levels will be undertaken to ensure that the proposed mitigation measures are anticipated to be sufficient.

Where feasible, measurements of noise-intensive works should be conducted during standard construction hours, to confirm predicted levels prior to the commencement of out-of-hours works.

### 5.2 Hours of Construction

Conditions of Consent require that the applicant must comply with the following hours of work for earthworks and construction:

- Monday to Friday 7:00 am to 6:00 pm
- Saturday 8:00 am to 1:00 pm
- at no time on Sundays or public holidays.

### 5.3 Out of Hours Work

Condition D30 allows work outside of the hours identified above in the following circumstances:

- a) works that are inaudible at the nearest sensitive receivers;
- b) works agreed to in writing by the Planning Secretary;
- c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
- d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

Notwithstanding the conditions above, Condition D31 states that the following works may be undertaken out of hours:

- a) installation of drainage infrastructure;
- b) asphalting; and
- c) other works required to be completed at night for safety reasons, as detailed in an approved Construction Traffic Management Plan (CTMP).

Note: Other works required to be completed at night for safety reasons in the CTMP include the following activities:

- Barrier placement/relocation
- Lime stabilisation
- DGB placement and compaction
- Asphalt placement
- Linemarking & signage

An OOHW Protocol has been prepared in accordance with Condition D30 and D31. Refer to **Appendix D** for further information relating to OOHW protocol.

### 5.4 Construction Noise Predictions

The following overview is based on the predicted impacts at the most affected receivers and is representative of the worst-case noise levels that are likely to occur during Project work.

The assessment shows the predicted impacts based on the exceedance of the management levels, as per the categories in **Table 13**.

Exceedance of RBL	Exceedance of Standard Hours NML	Exceedance of OOHW NML	Subjective Classification	Impact Colouring
1 to 10 dB	No exceedance	Up to 5 dB	Noticeable	
11 dB to 20 dB	1 to 10 dB	6 dB to 15 dB	Clearly Audible	
21 dB to 30 dB	11 dB to 20 dB	16 dB to 25 dB	Moderately intrusive	
>30 dB	>20 dB	>25 dB	Highly Intrusive	

Table 13 Exceedance Bands and Impact Colouring

Note 1: This subjective classification is indicative and follows the approach outlined in the CNVG.

A summary of the number of buildings where NML exceedances were predicted for the various work activities is shown in **Table 14** for standard construction hours, and **Table 15** for OOHW (which, as a worst-case scenario, is assumed to occur during the night-time) for both the AARU and MAIU works. **Table 14** and **Table 15** also include a summary of the buildings that are not on lots that are subject to existing development applications and are therefore more likely to be occupied. Noise impact maps of each construction scenario are presented in **Appendix C**.

The assessment is generally considered conservative as the calculations assume all items of construction equipment are in use at the same time within individual scenarios at the nearest location to each receiver. In reality, there would frequently be periods when construction noise levels are much lower than the worst-case levels predicted as well as times when no equipment is in use and no noise impacts occur.

Receiver	NCA								l	Number of	Receivers	5								
Category		Total <sup>3</sup>	Exceedance								With NML	Exceedar	nce <sup>2</sup>							
		AARU/	AARU / Category'		001	W.0	002a	W.0	003a	w.	004	w.	005	w.	006	w.	007	W.	008	
				AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	
Residential	NCA01	41 / -	1-10 dB	2	-	1	-	2	-	2	-	1	-	1	-	1	-	2	-	
			11-20 dB	2	-	2	-	1	-	2	-	2	-	2	-	2	-	3	-	
			>20 dB	-	-	2	-	2	-	3	-	2	-	2	-	2	-	-	-	
			HNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	NCA02	6/-	1-10 dB	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	
_			11-20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				>20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			HNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	NCA03	75 / 49	1-10 dB	3	-	2	7	1	7	1	3	2	7	2	7	2	5	2	6	
			11-20 dB	1	-	3	-	3	-	2	5	3	-	3	-	3	2	2	-	
			>20 dB	2	-	3	-	3	-	5	-	3	-	3	-	3	-	3	-	
			HNA	-	-	2	-	2	-	3	-	2	-	2	-	2	-	2	-	
	NCA04	4 / 1	1-10 dB	-	-	-	-	-	-	4	1	-	-	-	-	-	-	-	-	
			11-20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			>20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			HNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	NCA05	- / 1	1-10 dB	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	
			11-20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			>20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			HNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	NCA06	7 / 93	1-10 dB	-	5	1	7	-	6	2	7	1	7	1	7	2	9	-	5	

#### Table 14 Overview of NML Exceedances – Day Standard Hours

Receiver	NCA									Number of	Receivers	;							
Category		Total <sup>3</sup>	Exceedance								With NML	Exceedar	nce²						
		AARU / MAIU	Category	w.	001	w.c	002a	W.0	003a	W.(	004	w.	005	w.	006	w.	007	<b>W</b> .(	800
				AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU
			11-20 dB	-	-	-	4	-	4	-	9	-	5	-	5	-	5	-	4
			>20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			HNA	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-
	NCA07	-/-	1-10 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11-20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			>20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			HNA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	All	- / -	1-10 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sensitive	NCAS		11-20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			>20 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Note 1: HNA = Highly Noise Affected, based on ICNG definition (ie predicted LAeq(15minute) noise at residential receiver is 75 dBA or greater).

Note 2: Based on worst-case predicted noise levels.

Note 3: Total values shown are the affected receivers for both AARU and MAIU projects in each NCA.

Receiver Category	NCA					Nu	nber of	Receiver	s								
		Total	Exceedance Category <sup>1</sup>						Wit	h NML E	xceedan	ce <sup>2</sup>					
				W.(	W.001 AARU MAIU		02b	W.003b		W.005		W.006		W.007		W.008	
				AARU			MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU
Residential	NCA01	74 / -	1-5 dB	-	-	-	-	-	-	-	-	-	-	-	-	2	-
			6-15 dB	2	-	3	-	2	-	2	-	2	-	2	-	-	-
			16-25 dB	3	-	2	-	2	-	2	-	2	-	2	-	3	-
			> 25 dB	-	-	-	-	1	-	3	-	3	-	3	-	2	-
			SD	4	-	3	-	5	-	5	-	5	-	5	-	4	-
	NCA02	119 / 1	1-5 dB	-	-	-	-	-	-	24	-	24	-	22	1	21	-
			6-15 dB	-	-	-	-	-	-	8	-	8	-	12	-	-	-
			16-25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			> 25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NCA03	102 / 77	1-5 dB	1	4	1	5	1	2	-	1	-	1	-	-	-	1
			6-15 dB	3	2	3	1	2	5	2	5	2	5	2	6	2	7
			16-25 dB	1	-	1	-	2	-	3	2	3	2	2	2	3	-
			> 25 dB	2	-	2	-	3	-	3	-	3	-	4	-	3	-
			SD	6	1	6	-	6	2	8	7	8	7	8	7	6	2
	NCA04	111 / 46	1-5 dB	-	-	-	-	-	-	30	12	30	12	43	21	6	1
			6-15 dB	-	-	-	-	-	-	-	-	-	-	2	-	-	-
			16-25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			> 25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	NCA05	16 / 128	1-5 dB	-	-	-	-	-	2	4	20	4	20	7	19	1	16

#### Table 15 Overview of NML Exceedances – All Receiver Types (Out-of-Hours Work)

Receiver Category	ory NCA Number of Receivers																	
		Total	Exceedance Category <sup>1</sup>	With NML Exceedance <sup>2</sup>														
				W.001		W.002b		W.0	W.003b		W.005		W.006		W.007		W.008	
				AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	AARU	MAIU	
			6-15 dB	-	-	-	-	-	-	-	6	-	6	-	11	-	1	
			16-25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			> 25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			SD	-	-	-	-	-	-	-	9	-	9	-	9	-	-	
	NCA06	96 238 / 542	1-5 dB	3	11	3	8	8	17	28	22	28	22	30	28	17	16	
			6-15 dB	2	8	2	7	3	13	15	28	15	28	17	30	8	22	
			16-25 dB	-	8	-	8	-	5	2	8	2	8	2	7	2	9	
			> 25 dB	-	-	-	-	-	4	-	8	-	8	-	9	-	5	
			SD	2	16	2	14	3	17	14	44	14	44	14	44	2	16	
	NCA07	.07 - / -	1-5 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			6-15 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				16-25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			> 25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				SD	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Sensitive	All NCAs	- / -	1-5 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			6-15 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			16-25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			> 25 dB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Note 1: SD = Sleep disturbance screening level (ie predicted LAmax noise at residential receiver is greater than 52 dBA).

Note 2: Based on worst-case predicted noise levels.

The assessment of the predicted worst-case noise levels in Table 14 and Table 15 shows:

- The highest impacts are expected to occur where highly noise intensive activities are being undertaken (ie concrete sawing, hydraulic hammering and vibratory rolling). Where reasonable and feasible, these activities should be limited to the standard hours to avoid noise impacts during more sensitive out-of-hours periods (refer to **Section 6.0**).
- Highly intrusive noise levels are predicted in NCA03 during standard construction hours for scenarios W.002a, W.003a, W.004, W.005, W.006, W.007 and W.008 for the AARU project
- Highly intrusive noise levels are predicted in NCA06 during standard construction hours for scenario 'W.004 Bulk earthworks' for the MAIU project.
- Highly intrusive noise levels are predicted in NCA01 and NCA03 during out-of-hours periods for scenarios W.003b, W.005, W.006, W.007, W.008. Additionally, it is predicted that highly intrusive noise levels occur from W.001 and W.002b during OOHW for the AARU project.
- Highly intrusive noise levels are predicted in NCA06 during out-of-hours periods for scenarios W.003b, W.005, W.006, W.007 and W.008 for the MAIU project.
- For the MAIU project, noise levels above the NMLs are predicted to occur in NCA03 and NCA06 during out of hours period for all OOW scenarios (W.001, W.002b, W.003b, W.005, W.006, W.007 and W.008). Noise levels above the NMLs are anticipated to occur in NCA05 for scenarios W.005, W.006, W.007 and W.008. It is predicted that a single receiver may experience noise levels about the NMLs in NCA02 for scenario W.007.
- For the AARU project, noise above the NMLs is predicted to occur in all NCAs except for NCA07 during out-of-hour periods. The exceedance of NMLs occurs for all scenarios in NCA01, NCA03 and NCA06 and only for W.005, W.006, W.007 and W.008 for NCA02 and NCA05.
- LAmax noise levels have the potential to exceed the sleep disturbance screening level at the closest residential receivers in NCA01, NCA03 and NCA06. LAmax noise levels are generally associated with highly noise intensive activities (ie concrete sawing, hydraulic hammering and vibratory rolling). Where reasonable and feasible, these activities should be limited to the less sensitive periods to avoid noise impacts during more sensitive out-of-hours periods (refer to **Section 6.0**).

Recommended noise mitigation and management measures are discussed in **Section 6.0**.

### 5.5 Construction Vibration

Vibration intensive equipment required during construction include vibratory rollers and hydraulic hammers. Vibratory rollers will be used during W.006 – Subbase and base and W.008 – Road furniture installation, and the hydraulic hammers will be used during W.004 – Bulk Earthworks.

Offset distances for the vibration intensive equipment have been determined from the CNVG minimum working distances for cosmetic damage and human response (see **Table 11**). Buildings within the minimum working distances are shown in **Figure 3**.

This assessment has assumed the worst-case and considered the use of large hydraulic hammers and large vibratory rollers (i.e., greater than 18 tonne).





### 5.5.1 Cosmetic Damage Assessment

The assessment in **Figure 3** shows that two residential building near to the AARU works have the potential to be within the minimum working distance for cosmetic damage (25 m) when vibration intensive works are being completed adjacent to this building. No residential receivers are within the minimum working distances for the MAIU works.

Offset distances from specific vibration intensive plant to the nearest receivers and building construction should be confirmed before commencing vibration intensive work during construction. Construction vibration mitigation measures are discussed in **Section 6.0**.

### 5.5.2 Human Comfort Vibration Assessment

The assessment shows that five receivers for the AARU works and six receivers for the MAIU works are within the human comfort minimum working distances (100 m) and occupants of affected buildings may be able to perceive vibration impacts at times when vibration intensive equipment is in use. Where impacts are perceptible, they would likely only be apparent for relatively short durations when vibration intensive equipment is nearby. Construction vibration mitigation measures are discussed in **Section 6.0**.

### 5.5.3 Heritage Vibration Assessment

The assessment shows that the heritage listed gateposts (Gateposts to Colesbrook) at 269 Aldington Rd, Kemps Creek (primary address 269-285 Mamre Rd, Kemps Creek) is located approximately 20 m from the Project boundary. Therefore, this heritage item has the potential to fall within the minimum working distance for cosmetic damage for structurally unsound heritage items when a greater than 18 tonne vibratory roller is used (i.e., 50 m from vibration generating activities, refer to **Table 11**).

A dilapidation/condition survey will be undertaken by a suitably qualified person (e.g., a structural engineer) prior to the vibration generating work to determine if the post is "structurally unsound", and the more stringent criterion in accordance with DIN 4150-3 is applicable. If the post is deemed structurally sound, then the general vibration screening criterion of 7.5 mm/s (as detailed in **Section 4.4.5**) would apply. The appropriate minimum working distances can then be determined in accordance with **Table 11**; notwithstanding, the proposed activities will be within these minimum working distances.

Therefore vibration intensive works conducted near the heritage listed post must:

- Investigate different construction methods with lower source vibration levels (i.e., using smaller rollers or hydraulic hammers or where necessary, using less vibration-intensive compaction and demolition techniques).
- Undertake attended vibration monitoring at the commencement of the vibrationintensive activities to determine site-specific minimum working distances.
- Undertake continuous vibration monitoring with audible and visible alarms at the nearest sensitive receivers whenever vibration generating activities need to take place inside the safe-working distances.

With the implementation of these measures, vibration impacts are likely to comply with the cosmetic damage limits. Construction vibration mitigation measures are discussed further in **Section 6.0**.

### 5.6 Cumulative Impacts

Cumulative construction noise or vibration impacts can occur where multiple work activities are being completed near to a particular receiver at the same time. There is potential for cumulative construction impacts from multiple construction activities being completed in different areas of the project (ie MAIU and AARU).

Since the construction scenarios required for various stages of the proposal would generally require similar items of equipment, concurrent construction work being completed near to a particular area could theoretically increase the worst-case noise levels in this report by around 3 dB (ie a logarithmic adding of two sources of noise at the same level) particularly at some receivers located between the two project work areas.

The likelihood of worst-case noise levels being generated by two different work activities at the same time is, however, considered low and rather than increase construction noise levels, the impact of concurrent work would generally be a limited to a potential increase in the duration, and annoyance, of noise impacts on the affected receivers.

In practice, construction noise levels in any one location would vary and would be frequently much lower than the worst-case scenario assessed due to construction staging moving work around within the study area and, in many cases, only a few items of equipment being used at any one time.

The construction contractor will take feasible and reasonable steps to consult and coordinate with other construction projects when they become aware of them and if they have the potential to impact the same receivers concurrently, to minimise cumulative impacts of noise and vibration and maximise respite for affected sensitive receivers.

For OOHW, careful consideration and coordination of works between the MAIU and AARU projects are required to ensure sufficient respite is provided between out-of-hours activities, when required. This means that potential cumulative impacts from noise and vibration on sensitive receivers are to be identified and respite periods from simultaneous work activities are to be scheduled at the same time.

# 6.0 Mitigation and Management Measures

The ICNG acknowledges that due to the nature of construction works it is inevitable that there will be impacts where construction is near to sensitive receivers. All appropriate feasible and reasonable mitigation measures must be applied to the work to minimise the potential impacts, as far as practicable.

To minimise noise and vibration impacts during works, the construction contractor will take all reasonable and feasible measures to mitigate noise effects. Impacts from the works will be minimised and managed in accordance with the procedures detailed below in **Table 16**.

Measure	Person Responsible	Timing / Frequency	Reference / Notes	
Project Planning				
Use quieter and less vibration emitting construction methods where feasible and reasonable.	Project Manager	Ongoing	Best practice	
Works will be completed during standard daytime construction hours where possible, as outlined in <b>Section 5.2</b> .				
Some unavoidable OOHW will be required due to traffic management restrictions.				
Truck routes to site will be limited to Mamre Road. Trucks should access the site from Abbotts Road rather than Bakers Lane.				
Scheduling				
Where practicable, high noise generating activities will be limited to OOHW Period 1 (ie before 10PM).	Project Manager/ Communications and Community Liaison Representative	Ongoing	Best practice	
Avoid OOHW recurring in one location over consecutive nights.	Project Manager/ Communications and Community Liaison Representative	Ongoing	Best practice	
Avoid cumulative noise and vibration impacts between AARU and MAIU projects when feasible and reasonable.	Project Manager	Ongoing	Best practice	
Site Layout				
Compounds and worksites will be designed to promote one-way traffic and minimise the need for vehicle reversing.	Project Manager	Ongoing	Best practice	
Where practicable, work compounds, parking areas, and equipment and material stockpiles will be positioned away from noise-sensitive locations and take advantage of existing screening from local topography.				

Measure	Person Responsible	Timing / Frequency	Reference / Notes
Documentation of how site layout has been considered to reduce noise impacts must be provided by the Contractor's Project Manager. This must occur any time there are significant changes to the site layout.			
Where practicable, equipment that is noisy will be started away from sensitive receivers			
Training			
Training will be provided to all personnel on noise and vibration requirements for the project. Inductions and toolbox talks to be used to inform personnel of the location and sensitivity of surrounding receivers.	Project Manager	Ongoing	Best practice
Plant and Equipment Source Mitigation			
All plant and equipment must be maintained in a proper and efficient condition, operated in a proper and efficient manner, and feature standard noise amelioration measures where applicable.	Project Manager	Ongoing	Best practice
Where practicable, tonal reversing alarms (beepers) will be replaced with non-tonal alarms (squawkers) on all equipment in use (subject to occupational health and safety requirements).			
Stationary noise sources will be sited behind structures that act as barriers, or at the greatest distance from the noise-sensitive area (where practicable).			
Noise generating equipment will be regularly checked and effectively maintained, including checking of hatches/enclosures regularly to ensure that seals are in good condition and doors close properly against seals.			
Noise monitoring spot checks of equipment will be completed to ensure individual items are operating as expected			
Dropping materials from a height will be avoided.			
Loading and unloading will be carried out away from noise sensitive areas, where practicable.			
Trucks will not queue outside residential properties. Truck drivers will avoid compression braking as far as practicable.			
Truck movements will be kept to a minimum, ie trucks are fully loaded on each trip.			
Screening			
Where possible, install purpose-built screening or enclosures will be used around long-term fixed plant that has the potential to impact nearby receivers	Project Manager	Ongoing	Best practice

Measure	Person Responsible	Timing / Frequency	Reference / Notes	
The layout of the site will take advantage of existing screening from local topography, where possible. Site huts, maintenance sheds and/or containers will be positioned between noisy equipment and the affected receivers.				
Implementation of temporary noise barriers for highly intensive noise activities, such as saw cutting or rock breaking	Project Manager	Ongoing	Best practice	
Community Consultation				
Before work commences, work practices will be reviewed and feasible and reasonable practices implemented to minimise impacts.	Communications and Community Liaison Representative	Ongoing	Best practice	
Community Consultation Strategy and Complaints Handling Procedure (CCSCHP) will be used to guide community liaison in response to complaints and works notification	Communications and Community Liaison Representative	Ongoing	Best practice	
Monitoring		•		
Noise and/or vibration monitoring will be conducted (as appropriate) when noise/vibration intensive works are being undertaken in close proximity to sensitive receivers.	Environmental Coordinator	Ongoing	Best practice	
Noise and/or vibration monitoring will be conducted (as appropriate) in response to any complaints received to verify that levels are not substantially above the predicted levels.				
Vibration				
Notification will be provided to all receivers identified within the minimum working distances for vibration generating activities. Notification will include information about the construction activities (eg date, location, duration).	Environmental Coordinator	Ongoing	Best practice	
If vibration generating works are required within the minimum cosmetic damage working distances and considered likely to exceed the criteria:				
• Different construction methods with lower source vibration levels will be investigated and implemented, where feasible.				
• Attended vibration measurements will be undertaken at the start of the works to determine actual vibration levels of the item. Works will cease if the monitoring indicates vibration levels are likely to, or do, exceed the relevant criteria.				
Where works are required within the cosmetic damage minimum working distances, building				

Measure	Person Responsible	Timing / Frequency	Reference / Notes
condition surveys will be completed before and after the works to ensure no cosmetic damage has occurred.			
Prepare a dilapidation survey of the heritage post adjacent to Mamre Road.			
Where damage occurs due to construction vibration, LOG-E must repair, or pay the full costs associated with repairing property that is damaged by carrying out the External Road Works.			

### 6.1 Measures Identified Through Community Consultation

In accordance with Condition D25(c), consultation with affected sensitive land users has been initiated to identify additional mitigation and management measures for managing high noise and vibration-intensive works.

This consultation process aligns with the Community Consultation Strategy and Complaints Handling Procedure (CCSCHP) and formally commenced on 16 May 2024 where Stockland Fife Kemp Creeks Pty Limited (SKFC) with ESR undertook door knocking to affected residents. The outcomes of this engagement are included in **Appendix E of** this CNVMP.

In December 2024 targeted community and stakeholder letters were provided to affected residences. These communications invited affected residents to stay informed throughout the project and receive updates about upcoming works as construction progresses.

Targeted stakeholder and community engagement will begin early 2025, providing opportunities for residents to raise concerns or suggest specific mitigation measures tailored to their needs.

Feedback and suggestions gathered through ongoing consultation will be carefully reviewed, and any additional measures identified will be incorporated into updated versions of the Construction Noise and Vibration Impact Assessment (CNVIA).

Community consultation follows a structured approach outlined in the CCSCHP, which identifies key risks and community concerns related to the project, including:

- Requests for information about construction activities
- Concerns about construction noise and vibration
- Concerns about potential property damage
- Cumulative impacts from nearby projects.

To address these issues, a range of proposed community consultation and management measures has been developed, including:

- Early engagement with neighbouring stakeholders to discuss likely noise and vibration impacts
- Minimising noise through the use of appropriate plant, tools, techniques and programming
- Staging high-impact noise works with respite periods, as required by the Project Environment Protection Licence and CSSI Approval

• Conducting vibration monitoring for adjoining heritage structures, as advised by the acoustic advisor.

These measures aim to proactively manage noise and vibration impacts while maintaining open and ongoing communication with the community and stakeholders, to adapt and refine strategies as required.

### 6.2 Additional Mitigation Measures

Where the 'mitigated' construction noise levels remain above the noise management levels (NMLs), the Additional Mitigation Measures Matrix (AMMM) identified in the CNVG is to be implemented. The approach, guided by the AMMM, is primarily aimed at pro-active engagement with affected sensitive receptors rather than additional noise reducing mitigation.

The AMMM applies to all receptor types where these receptors are in-use. The types of additional mitigation measures are listed in **Table 17**. The AMMM for construction noise are identified in **Table 18**.

Mitigation / Management Measure	Abbreviation
Alternative Accommodation	AA
Respite offers	RO
Respite Period 1	R1
Respite Period 2	R2
Duration Respite	DR
Notification (letterbox drop or equivalent)	Ν
Specific notifications	SN
Phone calls	PC
Individual briefings	IB
Verification Monitoring	V

#### Table 17 Additional Noise Mitigation Measures

Note 1: Refer to the CNVG for further details on additional noise mitigation measures.

Construction Hours	Receiver Perception	Noise Level above RBL (dBA)	Noise Level above NML (dBA)	Additional Measures
Standard Hours	Noticeable	5 to 10	0	-
Mon-Fri (7am - 6pm)	Clearly Audible	>10 to 20	<10	-
Saturdays (8am - 1pm)	Moderately intrusive	>20 to 30	>10 to 20	N, V
	Highly Intrusive	>30	>20	N, V
	75 dBA or greater <sup>1</sup>	N/A	N/A	N, V, PC, RO
Out-of-Hours Work (OOHW)	Noticeable	5 to 10	<5	-
Period 1 Mon Eri (6nm 10nm)	Clearly Audible	>10 to 20	5 to 15	N, R1, DR
Saturdays (7am-8am) and (1pm-10pm)	Moderately intrusive	>20 to 30	>15 to 25	V, N, R1, DR
Sundays/Public Holidays (8am-6pm)	Highly Intrusive	>30	>25	V, IB, N, R1, DR, PC, SN
Out-of-Hours Work (OOHW)	Noticeable	0 to 10	<5	N
Period 2 Mon Fri (10pm 7pm)	Clearly Audible	>10 to 20	5 to 15	V, N, R2, DR
Saturdays (10pm - 8am)	Moderately intrusive	>20 to 30	>15 to 25	V, IB, N, PC, SN, R2, DR
(6pm - 7am)	Highly Intrusive	>30	>25	AA, V, IB, N, PC, SN, R2, DR

#### Table 18 Additional Mitigation Measures Matrix - Construction Noise

Note 1: Only applies at residential receivers.

What this means in practice is:

- The Notification (N) mitigation measure should be applied to all receivers that have noise impacts greater than 10 dB above the NML during the daytime.
- The Verification (V) mitigation measure should be applied for each of the activities. Measurements of the sound power level of each item shown in **Table 12** should be undertaken upon commencement of the use of that item of equipment. Monitoring should also be undertaken at the nearest sensitive receiver to the work upon the commencement of new activities and the measured levels compared with the predicted impacts in **Table 14** and **Table 15**, as well as **Appendix C**.
- Phone calls (PC) and Respite offers (RO) should be provided for receivers where noise levels are predicted at 75 dBA or greater. As a guide, work should be carried out in continuous blocks that do not exceed 3 hours each, with a minimum respite period of one hour between each block. The actual duration of each block of work and respite should be flexible to accommodate the usage of and amenity at nearby receivers.

Where OOHW is required, additional measures would be required as outlined in **Table 18**. For example, highly intrusive noise levels during OOHW period 1 would require the following: V, IB, N, R1, DR, PC, SN. Further detail and guidance on the implementation of these management measures is provided the CNVG, but importantly:



- Works during the evening periods of OOHW Period 1 can only occur for three consecutive evenings before a four day break is required (unless there is an agreement for Duration Respite).
- Works during OOHW Period 2 can only occur for two consecutive nights before a five day break is required (unless there is an agreement for Duration Respite).
- The receivers that are subjected to at least "moderately intrusive" impacts during the night-time, or "highly intrusive" during the evening period would require specific community consultation measures such as individual briefings, specific notifications and phone calls.
- The receivers that are subjected to "highly intrusive" impacts during the night-time will require the consideration of Alternative Accommodation. Whether Alternative Accommodation is reasonable and feasible should be determined on a case-by-case basis.
- The receivers that are subjected to at least "moderately intrusive' noise impacts during the night-time are mostly located within the Mamre Road precinct, with the exception of some receivers on the western side of Mamre Road. Whether community consultation or Alternative Accommodation is required will depend on whether the receiver is occupied at the time of the works. As noted in **Section 2.3**, the status of residential receivers could change at short notice. It is expected that most of the receivers on lots subject to existing Development Applications are unoccupied, and that more receivers in the Mamre Road precinct will become unoccupied in the future due to land acquisitions and subsequent development. Consequently the extent of additional mitigation measures will depend heavily on the timing of the works.

### 6.3 Monitoring

### 6.3.1 Construction Noise Monitoring

Unattended noise monitoring will be undertaken at locations representative of the closest, potentially most affected residences, such as the locations presented in **Figure 4**. These monitoring locations are indicative and should be determined based on the location of construction activities being undertaken at the time.

Each monitoring location will use statistical noise loggers (eg SiteHive) that are real-time enabled with an online portal, allowing the project team to investigate the noise impacts of work either at as it happens or immediately afterward. Exceedance notifications (SMS / email) of the established trigger levels will be enabled.







This monitoring would be supplemented by attended monitoring (where necessary) in order to differentiate between construction noise sources and other sources (such as road traffic) and also in order to observe and identify any unusually noisy equipment or operations.

During attended monitoring, typical maximum noise levels associated with particular operations and/or plant items will be noted. Extraneous noise events such as road traffic noise will be excluded from the results or highlighted in accompanying notes.

Attended noise monitoring (where necessary) will be undertaken by suitably qualified specialists. Equipment and methods will comply with AS 1055:2018. The statistical parameters to be measured will be the LAmin, LA90, LA10, LA1, LAmax and LAeq evaluated over consecutive 15 minute periods.

Noise monitoring data will be analysed and reported monthly, except for complaints which would be analysed separately and reported in an incident report.

All items of acoustic instrumentation utilised will be designed to comply with AS/NZS *IEC* 61672.1-2004 Electroacoustics – Sound level meters (AS IEC 61672) and carry current calibration certificates.

### 6.3.2 Construction Vibration Monitoring

### 6.3.2.1 Structural Damage Monitoring

Where vibration intensive works (such as vibratory rolling and rockbreaking) are required within the minimum working distances of sensitive receivers or structures (refer to **Table 11**), vibration will be monitored continuously for the duration of works within the minimum working distances. Real-time enabled vibration monitors with an online portal will be used (eg SiteHive). This will allow the project team to monitor construction vibration levels and ensure


acceptable levels of vibration are satisfied. Exceedance notifications (SMS / email) of the established trigger levels will be enabled.

Vibration monitoring will be undertaken at the closest points of the sensitive structure to the vibration intensive works to continuously monitor vibration for the duration of the works. Should the works location change, the monitors will be relocated to remain at the closest point of the structure to the works.

The vibration monitoring system will be configured to record the peak vibration levels and to trigger an alarm when predetermined vibration thresholds are exceeded. The thresholds correspond to an "Operator Warning Level" and an "Operator Halt Level", where the Warning Level is 75% of the Halt Level.

Exceedance of the "Operator Warning Level" does not require construction activity to cease but rather alerts the construction contractor to proceed with caution at reduced force or load.

An exceedance of the "Operator Halt Level" requires construction activity to cease and the construction contractor to undertake a detailed analysis of the vibration monitoring data and a visual inspection of the building structure. An analysis of the vibration source, dominant frequencies and dynamic characteristics of the structure will determine the applicable safe vibration level. Where the applicable safe vibration level is exceeded, the construction contractor would be required to implement an alternative construction technique. Actions to be carried out if the exceedance alarms are triggered are detailed in **Section 6.6**.

Attended vibration monitoring will also be carried out in response to complaints or to structural damage criterion exceedances. This monitoring will provide direct feedback to the operators in order to allow appropriate modification of construction techniques. Attended vibration monitoring (where necessary) will be undertaken by suitably qualified specialists.

All items of vibration instrumentation will be designed to comply with applicable guidelines and carry current calibration certificates.

## 6.3.2.2 Human Comfort Monitoring

As outlined above, where vibration intensive works (such as vibratory rolling and rockbreaking) are required within the minimum working distances of sensitive receivers (refer to **Table 11**), vibration will be monitored continuously at the most affected receivers for the duration of works within the minimum working distances. Real-time enabled vibration monitors with an online portal will be used (eg SiteHive). This will allow the project team to monitor construction vibration levels and ensure acceptable levels of vibration are satisfied. Exceedance notifications (SMS / email) of the established trigger levels will be enabled.

Attended vibration monitoring will also be carried out in response to complaints. This monitoring will provide direct feedback to the operators in order to allow appropriate modification of construction techniques. Attended vibration monitoring (where necessary) will be undertaken by suitably qualified specialists.

All items of vibration instrumentation will be designed to comply with applicable guidelines and carry current calibration certificates.

## 6.3.2.3 Monitoring Reports

Noise and/or vibration monitoring reports will be provided to the relevant regulatory authorities after review, unless otherwise agreed by the relevant regulatory authorities. Monitoring reports would include the following details, as a minimum:

Noise/vibration monitoring/measurement locations

- Date, time and length of noise monitoring/measurements
- Weather conditions during the measurements
- Name and position of personnel undertaking measurements
- Serial number of monitoring/measurement equipment
- Construction activities being undertaken during measurements
- Locations of construction equipment and distance from monitoring location
- Measured LAeq and LAmax noise levels during construction works (for each activity) along with a comparison to the predicted noise levels and notes identifying the noise levels from individual construction sources should be included (noise monitoring only)
- Measured LA90 background noise level in absence of the construction works along with notes on the noise sources driving the levels (noise monitoring only)
- Measured vibration levels during construction works (for each activity) along with a comparison to the relevant vibration criteria together with notes identifying the principal vibration sources (vibration monitoring only)
- Measured background vibration level in absence of the construction works (vibration monitoring only)
- Operator observations noting any extraneous noise/vibration sources or other points of relevance.

## 6.4 Community Consultation

Sensitive receivers and affected stakeholders will be informed prior to actions likely to generate high levels of noise or vibration in accordance with Section 3 of the Community Consultation Strategy and Complaints Handling Procedure (CCSCHP) for the MAIU and AARU projects. Refer to the CCSCHP for further detail on the community consultation undertaken to date.

The CEMP and this CNVMP contain specific measures to manage these impacts. These management plans have been informed by commitments contained within the SSD approvals package, EPA standards and guidelines.

## 6.5 Complaints Management

Complaints can be made via phone and email. Contact details will be included on site signage.

Information recorded in the complaints register with respect to each complaint will include:

- Date and time of complaint
- Name, address and telephone number of complainant
- Nature of complaint
- Response actions taken to date.

A report of complaints will be provided to the relevant regulatory authorities as agreed by the relevant regulatory authorities.

Preliminary investigations into the complaint will commence within 48 hours of the complaint receipt and adequate measures to identify and manage will be considered and implemented. Where required, noise/vibration monitoring will be undertaken as per **Section 6.3**.

Further information regarding complaints management can be found in the CCSCHP for the project.

## 6.6 Contingency Plan

The following contingency management plan, shown in **Table 19**, would be used to manage noise and vibration impacts that are higher than expected.

In the event of an incident, response will be carried out as detailed below. All Condition Amber and Condition Red occurrences will be recorded in the Construction Contractor's Monthly Report to the Principal and discussed during the toolbox talks.

The following events constitute an incident in terms of noise and vibration:

- Trigger of Condition Red for noise impacts during the standard daytime construction hours
- Any works occurring outside the standard daytime construction hours, where those works have not been agreed in writing by the relevant regulatory authority
- Trigger of Condition Red for vibration impacts at sensitive receivers.

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red					
Noise impacts at sensitive receiver locations	Trigger	Noise levels do not exceed applicable NMLs	Noise levels exceed applicable NMLs	Noise levels exceed Highly Noise Affected criteria (75 dBA for residential receivers)					
	Response	On-going best practice management measures to minimise noise emissions	Undertake all feasible and reasonable mitigation and management measures to minimise noise impacts (aiming to achieve NMLs)	Works exceeding the Highly Noise Affected criteria will be managed in accordance with the strategies for high-noise generating works determined through community consultation.					
Vibration impacts at sensitive receiver locations	Trigger	Vibration intensive works undertaken outside minimum working distance for the specific equipment in use	Vibration intensive works undertaken within minimum working distance for the specific equipment in use	Vibration levels exceed applicable vibration limits					
	Response On-going best practice management measures to minimise vibration emissions		Undertake vibration monitoring for the duration of the works to confirm vibration levels.	Stop work. Undertake all feasible and reasonable mitigation and management measures to ensure vibration levels are below applicable limits. If vibration levels cannot be kept below applicable limits then a different construction method or equipment must be utilised.					

 Table 19
 Contingency Management Plan

## 6.7 Internal Audits

Periodic internal audits will be conducted to ensure that the commitments and environmental management controls outlined in this CNVMP are being properly implemented. Audit reports will be used to inform of any corrective actions.

## 6.8 Roles and Responsibilities

The key responsibilities specifically for noise and vibration management are as follows:

### 6.8.1 Contractor's Project Manager

- Ensuring appropriate resources are available for the implementation of this CNVMP
- Reviewing and update of this CNVMP, where necessary
- Commissioning unattended monitoring systems (or suitably qualified consultants, where necessary) to complete noise and vibration monitoring. Ensuring environmental coordinators appropriately undertake attended noise and vibration measurements required by this CNVMP
- Assessing and (as required) mitigating risks of high noise and vibration levels before commencing works and ensuring that the appropriate controls are implemented
- Ceasing works in the event of excessive noise and vibration generation in the event that a noise or vibration complaint is received, implementing the procedure outlined in **Section 6.6**.

## 6.8.2 Contractor's Environmental Coordinator

- Assessing data from inspections and providing project-wide advice to ensure a consistent approach and outcomes are achieved
- Providing necessary training for project personnel to cover noise and vibration management
- Coordinating noise and/or vibration monitoring program, where required
- Review control measures in accordance with the CNVMP
- Identifying and reporting any high or non-compliant noise and vibration emissions.

### 6.8.3 All Workers on Site

- Observing any noise and vibration emission control instructions and procedures that apply to their work
- Taking action to prevent or minimise noise and vibration emission incidents
- Identifying and reporting noise and vibration emission incidents.

## 7.0 Review and Improvement of Noise Management Plan

This CNVMP will be reviewed, and if necessary, updated in the following circumstances:

- Significant changes to the equipment, machinery and plant operated within the site
- Where it is identified via monitoring that the performance of the project is not meeting the objectives of the CNVMP
- At the request of the relevant regulatory authority or other relevant government agency.

All employees and contractors will be informed of any revisions to the CNVMP by Site Management during toolbox talks. The most recent version of the CNVMP as approved by the Planning Secretary, will be implemented for the duration of construction works.



## Appendix A Acoustic Terminology

## Mamre - Abbotts Intersection Upgrade (MAIU) and Aldington - Abbotts Road Upgrade (AARU)

**Construction Noise and Vibration Management Plan** 

LOG-E c/o AT&L

SLR Project No.: 610.31166.00000

3 February 2025



#### 1. Sound Level or Noise Level

The terms 'sound' and 'noise' are almost interchangeable, except that 'noise' often refers to unwanted sound.

Sound (or noise) consists of minute fluctuations in atmospheric pressure. The human ear responds to changes in sound pressure over a very wide range with the loudest sound pressure to which the human ear can respond being ten million times greater than the softest. The decibel (abbreviated as dB) scale reduces this ratio to a more manageable size by the use of logarithms.

The symbols SPL, L or LP are commonly used to represent Sound Pressure Level. The symbol LA represents A-weighted Sound Pressure Level. The standard reference unit for Sound Pressure Levels expressed in decibels is  $2 \times 10^{-5}$  Pa.

#### 2. 'A' Weighted Sound Pressure Level

The overall level of a sound is usually expressed in terms of dBA, which is measured using a sound level meter with an 'A-weighting' filter. This is an electronic filter having a frequency response corresponding approximately to that of human hearing.

People's hearing is most sensitive to sounds at mid frequencies (500 Hz to 4,000 Hz), and less sensitive at lower and higher frequencies. Different sources having the same dBA level generally sound about equally loud.

A change of 1 dB or 2 dB in the level of a sound is difficult for most people to detect, whilst a 3 dB to 5 dB change corresponds to a small but noticeable change in loudness. A 10 dB change corresponds to an approximate doubling or halving in loudness. The table below lists examples of typical noise levels.

Sound Pressure Level (dBA)	Typical Source	Subjective Evaluation				
130	Threshold of pain	Intolerable				
120	Heavy rock concert	Extremely noisy				
110	Grinding on steel					
100	Loud car horn at 3 m	Very noisy				
90	Construction site with pneumatic hammering					
80	Kerbside of busy street	Loud				
70	Loud radio or television					
60	Department store	Moderate to				
50	General Office	quiet				
40	Inside private office	Quiet to				
30	Inside bedroom	very quiet				
20	Recording studio	Almost silent				

Other weightings (eg B, C and D) are less commonly used than Aweighting. Sound Levels measured without any weighting are referred to as 'linear', and the units are expressed as dB(lin) or dB.

#### 3. Sound Power Level

The Sound Power of a source is the rate at which it emits acoustic energy. As with Sound Pressure Levels, Sound Power Levels are expressed in decibel units (dB or dBA), but may be identified by the symbols SWL or LW, or by the reference unit  $10^{-12}$  W.

The relationship between Sound Power and Sound Pressure is similar to the effect of an electric radiator, which is characterised by a power rating but has an effect on the surrounding environment that can be measured in terms of a different parameter, temperature.

#### 4. Statistical Noise Levels

Sounds that vary in level over time, such as road traffic noise and most community noise, are commonly described in terms of the statistical exceedance levels LAN, where LAN is the A-weighted sound pressure level exceeded for N% of a given measurement period. For example, the LA1 is the noise level exceeded for 1% of the time. LA10 the noise exceeded for 10% of the time, and so on.

The following figure presents a hypothetical 15 minute noise survey, illustrating various common statistical indices of interest.



Of particular relevance, are:

- LA1 The noise level exceeded for 1% of the 15 minute interval.
- LA10 The noise level exceeded for 10% of the 15 minute interval. This is commonly referred to as the average maximum noise level.
- LA90 The noise level exceeded for 90% of the sample period. This noise level is described as the average minimum background sound level (in the absence of the source under consideration), or simply the background level.
- LAeq The A-weighted equivalent noise level (basically, the average noise level). It is defined as the steady sound level that contains the same amount of acoustical energy as the corresponding time-varying sound.
- LAmax The A-weighted maximum sound pressure level of an event measured with a sound level meter.

#### 5. Frequency Analysis

Frequency analysis is the process used to examine the tones (or frequency components) which make up the overall noise or vibration signal.

The units for frequency are Hertz (Hz), which represent the number of cycles per second.

Frequency analysis can be in:

- Octave bands (where the centre frequency and width of each band is double the previous band)
- 1/3 octave bands (three bands in each octave band)
- Narrow band (where the spectrum is divided into 400 or more bands of equal width)

The following figure shows a 1/3 octave band frequency analysis where the noise is dominated by the 200 Hz band. Note that the indicated level of each individual band is less than the overall level, which is the logarithmic sum of the bands.



1/3 Octave Band Centre Frequency (Hz)

#### 6. Annoying Noise (Special Audible Characteristics)

A louder noise will generally be more annoying to nearby receivers than a quieter one. However, noise is often also found to be more annoying and result in larger impacts where the following characteristics are apparent:

- Tonality tonal noise contains one or more prominent tones (ie differences in distinct frequency components between adjoining octave or 1/3 octave bands), and is normally regarded as more annoying than 'broad band' noise.
- Impulsiveness an impulsive noise is characterised by one or more short sharp peaks in the time domain, such as occurs during hammering.
- Intermittency intermittent noise varies in level with the change in level being clearly audible. An example would include mechanical plant cycling on and off.
- Low Frequency Noise low frequency noise contains significant energy in the lower frequency bands, which are typically taken to be in the 10 to 160 Hz region.

#### 7. Vibration

Vibration may be defined as cyclic or transient motion. This motion can be measured in terms of its displacement, velocity or acceleration. Most assessments of human response to vibration or the risk of damage to buildings use measurements of vibration velocity. These may be expressed in terms of 'peak' velocity or 'rms' velocity.

The former is the maximum instantaneous velocity, without any averaging, and is sometimes referred to as 'peak particle velocity', or PPV. The latter incorporates 'root mean squared' averaging over some defined time period.

Vibration measurements may be carried out in a single axis or alternatively as triaxial measurements (ie vertical, longitudinal and transverse). The common units for velocity are millimetres per second (mm/s). As with noise, decibel units can also be used, in which case the reference level should always be stated. A vibration level V, expressed in mm/s can be converted to decibels by the formula 20 log (V/Vo), where Vo is the reference level ( $10^{-9}$  m/s). Care is required in this regard, as other reference levels may be used.

#### 8. Human Perception of Vibration

People are able to 'feel' vibration at levels lower than those required to cause even superficial damage to the most susceptible classes of building (even though they may not be disturbed by the motion). An individual's perception of motion or response to vibration depends very strongly on previous experience and expectations, and on other connotations associated with the perceived source of the vibration. For example, the vibration that a person responds to as 'normal' in a car, bus or train is considerably higher than what is perceived as 'normal' in a shop, office or dwelling.

## 9. Ground-borne Noise, Structure-borne Noise and Regenerated Noise

Noise that propagates through a structure as vibration and is radiated by vibrating wall and floor surfaces is termed 'structure-borne noise', 'ground-borne noise' or 'regenerated noise'. This noise originates as vibration and propagates between the source and receiver through the ground and/or building structural elements, rather than through the air.

Typical sources of ground-borne or structure-borne noise include tunnelling works, underground railways, excavation plant (eg rockbreakers), and building services plant (eg fans, compressors and generators).

The following figure presents an example of the various paths by which vibration and ground-borne noise may be transmitted between a source and receiver for construction activities occurring within a tunnel.



The term 'regenerated noise' is also used in other instances where energy is converted to noise away from the primary source. One example would be a fan blowing air through a discharge grill. The fan is the energy source and primary noise source. Additional noise may be created by the aerodynamic effect of the discharge grill in the airstream. This secondary noise is referred to as regenerated noise.

## Appendix B Modelling Scenarios and Equipment

# Mamre - Abbotts Intersection Upgrade (MAIU) and Aldington - Abbotts Road Upgrade (AARU)

**Construction Noise and Vibration Management Plan** 

LOG-E c/o AT&L

SLR Project No.: 610.31166.00000 3 February 2025



Equipment		Total Lw (dBA)	2 Articulated Dump Truck	Chainsaw <sup>1</sup>	5 Compactor	Concrete Agitator Truck	11 Dozer (CAT D9)	Elevated Work Platform	Excavator - Tracked (20T)	Excavator - Tracked (30T)	Excavator 20-30T + Hammer <sup>1</sup>	112 Grader	S Lighting Tower	2 Line Marking Truck	Pavement Laying Machine	B Roller - large pad foot	Roller - smooth drum	8 Roller - Vibratory <sup>1</sup>	5 5 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3	5 Scraper	2 Truck - Medium Rigid (20T)	100 - (301)	1 Tub Grinder/Mulcher <sup>1</sup>	2 Water Cart
Estimated utilisation (%)		-	25	50	50	109	50	25	100	100	30	100	100	100	100	109	107	109	30	100	25	25	30	50
ID Construction Scenario			25	50	50	100	50	23	100	100	50	100	100	100	100	100	100	100	50	100	25	25	50	50
W.001	Mobilisation, Site Establishment and Traffic Switches	109											2	1							2			
W.002a	Utility Relocations & Drainage Infrastructure	118			1				1				1						1		1			
W.002b	Utility Relocations & Drainage Infrastructure (OOHW2)	108			1				1				1								1			
W.003a	Corridor clearing	117	1	1						1			2								1		1	
W.003b	Corridor clearing (OOHW)	112		1						1			2								1			
W.004	Bulk Earthworks	124	1		1		1				1	1				1				1				1
W.005	Kerb and footpath	119			1	1			1				1						1		1			
W.006	Subbase and Base	119							1				1					1	1		1			1
W.007	Asphalting	120													1		1		1			1		
W.008	Road furniture installation	116						1	1					1				1			1	1		1

Note 1: Equipment classed as 'annoying' in the ICNG and requires a 5 dB correction.

Sound power level data is taken from the DEFRA Noise Database, AS2436, TfNSW CNVG Note 2:

# 3 February 2025 SLR Project No.: 610.31166.00000 SLR Ref No.: 610.31166.00000-R07-v1.5-20250203.docx





# Appendix C Noise Impact Maps

## Mamre - Abbotts Intersection Upgrade (MAIU) and Aldington - Abbotts Road Upgrade (AARU)

**Construction Noise and Vibration Management Plan** 

LOG-E c/o AT&L

SLR Project No.: 610.31166.00000

3 February 2025



















Appendix C-8



H:\Projects-SLR\610-SrVS\610-SYD\610-31166.00000 Alcington Road Upgrade CNV Assessment fo\06 SLR Data\05 Modelling\02 QGIS\610.31166 - ARU-MAIU CNVMP.qgz





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**Appendix C-26** 





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# Appendix D OOHW Protocol

### Mamre - Abbotts Intersection Upgrade (MAIU) and Aldington - Abbotts Road Upgrade (AARU)

**Construction Noise and Vibration Management Plan** 

LOG-E c/o AT&L

SLR Project No.: 610.31166.00000

3 February 2025



### D.1 Relevant Conditions of Consent

Condition D30 allows work outside of the hours identified above in the following circumstances:

- e) works that are inaudible at the nearest sensitive receivers;
- f) works agreed to in writing by the Planning Secretary;
- g) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
- h) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

Notwithstanding the conditions above, Condition D31 states that the following works may be undertaken out of hours:

- d) installation of drainage infrastructure;
- e) asphalting; and
- f) other works required to be completed at night for safety reasons, as detailed in an approved Construction Traffic Management Plan (CTMP).

Note: Other works required to be completed at night for safety reasons in the CTMP include the following activities:

- Barrier placement/relocation
- Lime stabilisation
- DGB placement and compaction
- Asphalt placement
- Linemarking & signage

Condition D22(d)(i) requires that the Applicant must prepare a Community Consultant Plan (CCP) for the External Road Works to the satisfaction of the Planning Secretary. The plan must detail the mechanisms for regularly consulting with the nearest sensitive receivers and wider residential communities, to keep them informed above upcoming works, duration and any night-time or out of hours works. The Community Consultation Strategy and Complaints Handling Procedure (CCSCHP) for the MAIU and AARU projects is to be referred to for guidance on developing a CCP for OOHW.

### D.2 Justification of Out-of-Hours Work

Due to the nature of the work, around 20 out-of-hours work (OOHW) shifts (e.g., weekend or nights) will also be required for the OOHW scenarios in **Table 12** of the CNVMP.

All work on or adjacent to roads would be carried out in accordance with a relevant Traffic Control Plan (TCP) and/or Road Occupancy Licence (ROL) to facilitate safe work near live traffic.

Where an ROL cannot be obtained for the approved Standard Construction Hours (refer **Section 5.2** of the CNVMP) and/or proposed works cannot be undertaken safely during these hours, some works will be required to be undertaken outside of standard hours.

### D.3 Out-of-Hours Work Approval

Only works listed under Condition D30 and D31 are permissible during out-of-hours. For activities under Condition D30 and D31, implementation of mitigation measures as outlined in **Section 6.0** of the CNVMP will be required for all project work, including OOHW. Where residual noise impacts have been identified, additional mitigation measures will be implemented as per guidance provided in **Section 6.1** of the CNVMP.

For OOHW not permissible under Condition D30 and D31, the following approval process below must be followed:

- 1. LOG-E's Environmental Coordinator (EC) must prepare an OOHW Approval Request Form (see example provided in the attachment, below). The OOHW Approval Request Form requires details regarding the proposed OOHW activity and require justification for the OOHW works.
- 2. The completed OOHW Approval Request Form is to be provided to the Environmental Representation (ER) for review and the risk profile of the OOHW are to be confirmed; details regarding the OOHW risk profiles are outlined below.
- 3. Once the OOHW Approval Request Form is reviewed and risk factors confirmed by the ER, the OOHW Approval Request Form and Community Consultation Plan will be provided to the Planning Secretary for review and approval.
- 4. An approved OOHW Permit from the Planning Secretary is to be provided to the relevant construction team by the EC.

Following the OOHW, LOG-E should review any collected noise and vibration monitoring data, mitigation measures and lessons learned to minimise future risk and impacts.

### D.4 Out-of-Hours Work Risk Profiles

The factors relating to the risk profiles for OOHW detailed in the CNVG are replicated in **Table D1**.

Table D1	Risk	Profiles	for	оонw
				001111

Low Risk Factors	Medium Risk Factors	High Risk Factors
<ul> <li>No sleep disturbance</li> <li>6 pm to 10 pm on weekdays</li> <li>1 pm to 10 pm on Saturdays</li> <li>8 am to 6 pm on Sundays and public holidays</li> <li>1 or 2 OOHW occurrences</li> <li>No impulsive or tonal noise vibration</li> </ul>	<ul> <li>Sleep disturbance risk</li> <li>10 pm to 7 am on weekday nights</li> <li>10 pm to 8 am on Saturday nights</li> <li>6 pm to 7 am Sunday and public holiday nights</li> </ul>	<ul> <li>Prolonged work (ie greater than 1 week)</li> <li>Sleep disturbance possible</li> <li>Impulsive noise or vibration likely (eg vibratory rolling or rock breaking)</li> </ul>

### Attachment - Out of Hours Work Approval Request Form

Out of Hours Work (OO Mamre-Abbots Intersection	<b>HW) Approval Request</b> on Upgrade (MAIU) or Al	Form dington Abbotts Road Upgra	ade (AARU)
Project name	Notification date	Approval date	
Position	Name	Mobile number and email	
Contractor Environment Coordinator			
Contractor Construction Manager			
Contractor Foreman/Site Supervisor			
Contractor Project Engineer			
Details of work			
Location			
Affected NCAs			
Justification of works			
Typical plant and equipment to be used			
Plant and equipment list	Name	Signature	Date checked
checked by construction personnel ordering plant/equipment			
Traffic control measures required			
Lighting required			
Proposed mitigation measures			
Proposed date of works			
Proposed timings			

Risk factor category						
Low/Medium/High?						
Evidence of risk confirmation from the ER						
Details of noise or vibration	on assessment completed					
Provide details of quantit potential noise exceedan proposed management n accommodation or other residents	ative assessments for all proposed works, including predicted noise levels, ces against relevant NMLs, potentially affected sensitive receivers and neasures in accordance with ICNG and CNVG. Where alternative agreed mitigation is triggered, include details of and offers made to qualifying					
Review/Endorsements						
TfNSW and	Yes/No – Date:					
(or delegate) notified?	Comments					
Project Manager	Yes/No – Date:					
notified?	Comments					
Environment	Yes/No – Date:					
Representative notified?	Comments					
Community notified?	Yes/No – Date:					
	Comments					
Community and Community Liaison Representative	Provide details of consultation with affected receivers, in accordance with Community Consultation Strategy and Complaints Handling Procedure					
	Have the works been reviewed and endorsed by Planning Secretary? Yes/No					
	Comments					

Approvals							
Environment Representative reviewed/approved?	Yes/No Attach approval letter or evidence of approval						
Planning Secretary reviewed/approved?	Yes/No Attach approval letter or evidence of approval						
Contractor Project	Are the works approved for commencement? Yes/No						
Manager	Name	Signature	Date				
	Comments						



# Appendix E Community Consultation Summary

# Mamre - Abbotts Intersection Upgrade (MAIU) and Aldington - Abbotts Road Upgrade (AARU)

**Construction Noise and Vibration Management Plan** 

LOG-E c/o AT&L

SLR Project No.: 610.31166.00000

3 February 2025





### ABBOTTS ROAD / ALDINGTON ROAD MAMRE ROAD / ABBOTTS ROAD INTERSECTION Community Consultation and Complaints Handling Strategy

### 1. Introduction

#### 1.1 Background

Stockland Fife Kemps Creek Pty Limited (SFKC) is seeking to upgrade Abbotts Road and Aldington Road, including the Mamre Road / Abbotts Road intersection, under a joint delivery with ESR and Frasers. A modification application has been prepared and is currently under assessment to pull the environmental impacts of the proposed road works into SFKC's existing consent, SSD-10479, for 200 Aldington Rd, Kemps Creek. The determination of the modification will enable issue of relevant road approvals: Works Authorisation Deed (WAD) (TfNSW) or Section 138 (Penrith City Council), which will allow SFKC and its proposed contractor to deliver the works on behalf of government to support the new warehouses in the Mamre Road Precinct.

As part of the modification's assessment, Department of Planning, Housing and Infrastructure (DPHI) requested SFKC to undertake community consultation to advise immediate landowners of the environmental impact associated with the proposed road works. SFKC with ESR undertook door knocking to affected residents on 16 May 2024. Outcomes of this engagement is contained at Section 2.2 of the draft *Community Consultation and Complaints Handling Strategy*.

SFKC recognises the engagement will be an ongoing process with residents as road works commence. Therefore, this draft *Community Consultation and Complaints Handling Strategy* has been prepared to support the project during its duration.

#### 1.2 Purpose

This draft *Community Consultation and Complaints Handling Strategy* (Engagement Strategy) outlines the following:

- Identification of consultation triggers and methods with adjacent landowners and residents, key stakeholders, relevant agencies and the wider community
- The tools and actions to be undertaken throughout the construction program for the road works to disseminate information through notification of relevant stakeholders
- Enquiry and compliant management protocol; and
- Monitoring and feedback mechanism.

The Engagement Strategy is anticipated to be a dynamic document. To be updated for variations in the construction program, methodology and feedback from residents.





#### **1.3** Community Communications and Complaints Handling Strategy Scope

The Engagement Strategy applies to Mamre Road/ Abbotts Road intersection works and Abbotts Road/Aldington Road works associated with the Proponent and their engagement contractors. This document outlines the method, triggers, and timing of consultation, notification and complaints and queries handling required in the course of construction of the road works.

#### 1.4 Project Description

Proposed Mamre Road and Abbotts Road Intersection works are described as follows:

- a. Installation of traffic signals (TCS5186) and associated road work construction to TfNSW requirements at the intersection of Mamre Rd and Abbotts Rd, Kemps Creek:
  - i. Demolition;
  - ii. Earthworks;
  - iii. Drainage;
  - iv. Utilities;
  - v. Pavement;
  - vi. Signage and Line marking;
  - vii. Concrete works (kerb, medians, and footpaths);
  - viii. Landscaping;

i.

- ix. Traffic Control Signals.
- b. Installation of traffic signals and associated concrete works, signage and line marking as per the TfNSW requirements at the following intersections:
  - Interim Intersection 1 (TCS5180) Abbotts Rd and Aldington Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
  - ii. Intersection 2 (TCS5242) Aldington Road and DCP Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
- iii. Intersection 3 (TCS5181) Aldington Road and DCP Road Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.
- iv. Interim Intersection 4 (TCS5182) Aldington Road and DCP Road, Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
  - Traffic Control Signals.

The proposed Abbotts and Aldington Roads seeks to construct new 4 lane distrubutor road:



- a. Demolition;
- b. Earthworks;
- c. Drainage;
- d. Utilities;
- e. Pavement;
- f. Signage and Line marking;
- g. Concrete works (kerb, medians, and footpaths); and
- h. Landscaping.





### Figure 1 Scope of Project Works



Source: Ethos Urban



### 2. Key Stakeholders and Potential Issues

#### 2.1 Key Stakeholders

The key stakeholders likely to require consultation, notification and or likely to raise comment or complaint in the course of the road works include (but are not limited to):

- Adjacent property owners or occupiers
- Landowners in the Mamre Road Precinct, not directly adjacent to the proposed road works
- Landowners outside of the Mamre Road Precinct, such as Mount Vernon residents
- Local Council (Penrith City Council)
- Transport for NSW
- NSW Police
- Department of Planning, Housing and Infrastructure
- Utility and Services Providers, including:
  - o TransGrid
  - o Endeavour Energy
  - Sydney Water
- Other Interested Parties

#### 2.2 Previous Consultation

The proposed road works have been documented in SFKC's development application since 2021. The proponent and their representatives have undertaken consultation as part of this DA, as well as developing the for-construction design under the WAD and Section 138 process.

In addition, SFKC and ESR recently door knocked residents as part of this modification to support the proposed road works modification on 16 May 2024. Outcomes of this consultation is outlined in **Table 1** below.

Address	Lot/DP	Road Works Impact	Consultation Outcome
54-72 Aldington Road Kemps Creek	43/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:12AM</li> <li>Vacant residential property</li> <li>Currently operating as a basil farm</li> <li>Discussed with worker the proposed road works and left contact information for further questions</li> </ul>
53 Aldington Road Kemps Creek	38/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:16AM</li> <li>No one at the property</li> <li>Identified to reattend site in the next two weeks</li> </ul>

#### Table 1 16 May 2024 Consultation Outcomes

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





269 Aldington Road	8/DP253503	•	Directly adjacent to	•	Attended site at 10:10AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Understood land is currently under
		•	In proximity to		transaction to a developer
			Mamre Road/	•	ESR and SFKC to contact developer to
			Abbotts Road		discuss proposed road works
			intersection works		
284-288 Aldington	141/DP1033686	•	Directly adjacent to	•	Attended site at 9:26AM – 9:37AM
Road Kemps Creek			proposed Aldington	•	Met with the landowner
			Road works	•	Discussed the road upgrade including
		•	In proximity to		environmental impacts e.g. noise, dust,
			Mamre Road/		etc
			Abbotts Road	•	No major issues raised
			intersection works	•	Further discussions on driveway tie-in
					under the proposed road works.
				•	Ongoing consultation identified
282 Aldington Road	142/DP1033686	•	Directly adjacent to	•	Attended site at 9:21AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Met with relative at Lot 141, refer to
		•	In proximity to		conversation
			Mamre Road/	•	Ongoing consultation identified
			Abbotts Road		
			intersection works		
287 Aldington Road	11/DP296455	•	Directly adjacent to	•	Attended site at 10:11AM – 10:30AM
Kemps Creek			proposed Abbotts	•	Met with the landowner
			and Aldington Road	•	No issues with noise
			works	•	Concern regarding retain fence on
		•	Directly adjacent to		property boundary
			proposed Mamre	•	ESR advised proposed upgrade will not
			ROAD/ ADDOTTS ROAD		touch his fence
			Intersection works	•	Ongoing consultation identified
				•	ESR to organise meeting with road
					contractor closer to date of
					construction commencement to discuss
4046 4000 14	2 (55250000				protecting his fence
1016-1028 Mamre	2/02250002	•	Directly adjacent to	•	Attended site 10:34AM
коаа кетрs Creek			proposed Abbotts	•	No one at the property
			and Algington Road	•	Identified to reattend site in the next
			WORKS		two weeks
		•	Directly adjacent to		
			proposed Mamre		
			KOad/ Appotts Koad		
			intersection works		





272 Aldington Road Kemps Creek	15/DP253503	•	Directly adjacent to proposed Aldington Road works	• • • • •	Attended site from 9:44AM-10:09AM Met with the landowner Landowner requested to send plan for road upgrade FKC to attend her site on Monday, 20 May 2024 to discuss proposed plans Wanting to coordinate driveway access Landowner concerned regarding traffic controllers and ongoing upgrades of traffic arrangements entering and exiting Abbotts Road Advised a website would be set up with a mailing list subscription Landowner concerned regarding length of time to upgrade road Requested ESR and SFKC to shut down road to accelerate road upgrade. ESR and SFKC advise this was not possible due to prohibition of using Bakers Lane for construction and
1005-1023 Mamre Road Kemps Creek	40/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	operational trattic.Attended site from 10:56AM – 11:30AMMet with the landownerConcern regarding construction trafficmanagement and stormwaterDiscuss the need to reduce the speedlimit, which ESR and SFKC advisedwould occur under the WADDiscussed the need to relocate thepower polesDiscussed the compulsory acquisition ofSydney Water and the proposedregional stormwater schemeESR and SFKC advised we could workwith the landowner on impactsassociated with the road worksDiscuss road tie into the proposed roadupgradeESR and SFKC agreed to share IPARTsubmission once completed in relationto the regional stormwater mattersESR issued plan of road works on 17May for information

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				•	Outcomes of discussion were to have a follow up meeting with all landowners on western half of Mamre Road. Tentatively scheduled for the 27 May 2024
20 Aldington Road Kemps Creek	44/DP708347	•	Directly adjacent to proposed Aldington Road works	•••	Attended site at 9:08AM No one answered Identified to reattend site in the next two weeks
983 Mamre Road Kemps Creek	39/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Landowner attended meeting with ESR, SFKC and landowner at Lot 40, DP 258414 Refer to above consultation outcomes for further information
967-981 Mamre Road Kemps Creek	38/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•••	Unable to attend site Landowner to join drop in with residents on 27 May 2024
1066-1078 Mamre Road Kemps Creek	5/DP250002	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	Attended site at 10:45AM ESR called resident and left message on 16 May 2024 No one at property ESR discussed proposed works on 17 May 2024 via phone No major issues Site is currently under due diligence by a developer
930-966 Mamre Road Kemps Creek	51/DP259135	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended site at 10:48AM Talked to resident via intercom Did not want to discuss the proposed road works Left contact card should they have any questions

#### 2.3 Potential Issues and Strategies

SFKC is committed to ongoing, proactive consultation with the community and stakeholders while understanding the importance of addressing potential issues and minimising construction related impacts. **Table 2** outlines potential project issues that are likely or known to be of interest or concern to the community and stakeholders. The able also details the communications related measures and strategies that SFKC and its delivery partners will undertake to manage and mitigate impacts.





Where an incident or non-compliance arises relating to environmental management and beyond the scope of matters relating to consultation, the management and mitigation measures will be handled as part of the approval under the WAD and Section 138. It is noted a Construction Environmental Management Plan is a required document to be approved by the relevant roads authority under the relevant road approval process.

Potential Issue	Potential Key Impact	Mitigation Strategy
Noise and Vibration	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with noise and vibration.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of noise and vibration associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement to occur during the commencement and delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drop advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> <li>Up to date information on current works will be accessible to all stakeholders via the project webpage.</li> <li>Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification</li> </ul>

#### Table 2 Issue Identification and Mitigation





		<ul> <li>via the project webpage, mailing list and letter box drop will be undertaken.</li> <li>The CEMP, along with the supporting Construction Noise and Vibration Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.</li> </ul>
Air Quality	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with air quality.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of air quality associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drops advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> </ul>





		T	
		•	works will be accessible to all stakeholders via the project webpage. Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification via the project webpage, mailing list and letter box drop will be undertaken. The CEMP, along with the supporting Construction Air Quality Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.
Traffic	the movement of construction machinery to and from site, the closure of parts of road to support delivery of road works, change of traffic through movement within the road corridor	•	landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Notification to be circulated 4 weeks prior to any traffic changes to registered parties via the mailing list and letter box drop. VMS boards adjacent to the proposed road works to identify changes to road conditions prior to them occurring. The CEMP and Construction Traffic Management Plan identify specific
			mechanisms to manage and mitigate these impacts including Driver Code of
			Conduct, intersection arrangements such as left in, left out only.
Stormwater,	High rainfall events could result in localised	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be
Stormwater, Sediment Control.	High rainfall events could result in localised flooding.	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water





		•	The CEMP, along with the supporting Erosion and Sediment Control Plan identify specific mechanisms to manage and mitigate these impacts in accordance with the relevant Penrith City Council standards and commitments within the SSDA.
Waste Management	Earthworks and construction waste present at the site during works.	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Removal of Flora and Fauna	The removal of native and exotic flora and fauna to facilitate road works, with associated potential for impacts on safety of immediately adjacent receivers, along with biodiversity and visual amenity	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Visual Amenity and Privacy	Visual impacts of earthworks and construction activities, along with potential impacts of privacy of adjacent sensitive receivers.	•	Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Should issues arise, ESR and SFKC will work with the landowner to identify appropriate mitigation methods to assist with privacy during the road works.
Out of Hours Works	The identified impacts could be magnified due to the works being carried out while surrounding receivers are more likely to be home in the early morning/ evening, or asleep, with corresponding lower background noise levels.	•	Direct engagement with landowners directly adjacent to the road corridor to occur 4 weeks prior to nighttime noise works. Letter box drop to be undertaken for receivers within Mamre Road Precinct and the broader area. Website and VMS boards to be updated advising of the night time works. Concerns and appropriate mitigation to be adopted utilising the relevant management plan/ mitigation solution, such as acoustic.





		•	ESR and SFKC to prepare a report to DPHI advising of concern raised by landowner and mitigation adopted to minimise impact to receiver.
Aboriginal Heritage	There is a potential for encountering items of Aboriginal Heritage during excavation.	•	Monitoring of works by appropriately qualified personnel, along with the implementation of an unexpected finds protocol in consultation with Aboriginal Stakeholders and Heritage Division of the Department of Planning, Industry and Environment The CEMP identifies specific mechanisms to manage and mitigate these impacts
Misinformation and Misunderstanding	Lack of project awareness within the wider community may result in complaints being raised by those unaware of the extent of the approval, with these complaints not directed through the appropriate project hotline. Unauthorised release of project information by the project team to the media, stakeholders or the community has potential to impact on project perception in the community.	•	The engagement strategy commits to provide regular updates in plain language, supported by imagery to stakeholders and the wider community through public and private media. Contact details will be provided on the webpage, on site and all information issued. Information on project works, reporting and compliance is to be maintained and updated on the project website.
Emergency Event	Unforeseen emergency with the potential impact on the community either directly, or indirectly through out of hours activities that may generate additional traffic or noise.	•	Communication updates will be issued to all stakeholders during emergency events, with the CEMP identifying specific mechanisms to manage and mitigate these impacts from an environmental management perspective.



### 3. Communications and Community Liaison Representative

SFKC will nominate a Communications and Community Liaison Representative (the representative) who will provide the community and stakeholders with a single point of contact for all aspects of the project, responsible for receiving and disseminating information requests and complaints, along with addressing any interface issues.

The representative will be available for contact by the local residents and the community at all reasonable times to answer any questions and address any concerns relating to the project. The representative will have up-to-date information on:

- Emerging stakeholders
- Planned construction activities
- Planned traffic arrangements
- Current landowner discussions with members of staff
- Planned community and stakeholder consultation
- Complaints and enquiries received
- Duties and accountabilities of staff; and
- Commitments to stakeholders made by SFKC and the broader delivery group.

The engagement representative will be responsible for recording, actioning and provided response to comments, queries or complaints received with relation to the construction of the project and will maintain the Complaints Register.

Engagement Representative Alasdair Cameron Project Manager – Infrastructure <u>Alasdair.Cameron@esr.com</u> 0402 458 226

The representative will be supported by AT&L, which are nominated as the project manager and superintendent. Additional contacts available to be reached at are as follows:

Project Manager Alex Lohrisch AT&L <u>Alex.L@atl.net.au</u> 0415 398 014

Superintendent Gabriel Vermeesch AT&L Gabriel.V@atl.net.au





0447 285 607

Any queries and complaints directed to AT&L will be immediately passed to the Engagement Representative on behalf SFKC, ESR and Frasers for action and response.





### 4. Community and Stakeholder Engagement

#### 4.1 Objectives

The key objectives of the strategy are to:

- Keep the local community and key stakeholder informed of the progress of the road works
- Ensure that enquiries and complaints received from the community or key stakeholders are addressed and responded to in a timely and effective manner
- Inform relevant parties in advance of potential disturbances and events likely to cause impact
- Be good neighbours and members of the local community throughout the duration of the project
- Providing an open two communication channel to allow ongoing, iterative engagement; and
- Seek opportunities for improvement throughout the project.

#### 4.2 Conduct

In their communications and consultation with the community and key stakeholders, SFKC and their representatives will comply at all times with the requirements of the *Privacy and Personal Information Protection Act 1998 (NSW)* and the *Privacy Act 1988 (Cth)*.

#### 4.3 Communication, Management and Mitigation Tools

A range of tools and techniques will be used to inform and engage with the community and stakeholders regarding the project. **Table 3** below provides an overview of the mechanisms to be utilised to notify and consult with local community and key stakeholders and measures to mitigate potential issues throughout the development.





#### Table 3 Communication Management and Mitigation Tools

Tool/ Technique	Description	Person Responsible	Audience	Frequency/timing	Specifications
Consultation Meetings	Meetings held to	Engagement	The wider community	Quarterly Town Halls to	Details and matters to
	notify, discuss or	Representative with	and key stakeholders	be established to	be discussed to be
	consult on matters	assistance from PM		update the public on	tailored to the purpose
	arising of relevance of			the progress of the	and aims of the
	community and/or key			road works. One to	meeting.
	stakeholders.			occur prior to	
				commencement. Town	Record of conversation
	Meetings to be held			Halls to exist during the	(informal) or minutes
	either face to face or			construction	(formal) to be
	on virtual platform(s).				recorded, retained by
				Additional meetings to	SFKC and provided to
				be held on an as needs	all attendees following
				basis dependent on	the meetings. A record
				matters to be discussed	of the discussions shall
				and appropriate timing	be included in the
				of discussions.	Complaints Register
					and actioned as
					required.
Complaints Register	Recording community	Engagement	The wider community	Project duration	The maintenance of
	and stakeholder	Representative with	and key stakeholders		the Complaints
	interactions (including	assistance from PM			Register will be
	notifications,				continually updated to
	consultation, queries,				record community
			- 80		

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	comments and complaints), along with associated remedial actions as required				engagement including information provided by SFKC, feedback received and remedial action undertaken where required.
Agency Meetings	Meetings with agencies to discuss matters relevant to their agency	Engagement Representative	Relevant Agency	As required	Meetings will be held as required to address matters relevant to specific agencies. These shall be undertaken directly by SFKC.
Notification Letterbox Drop	Letters would be provided to specific receivers identified as being potentially affected by construction. This may be undertaken in tandem with doorknocking.	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	Letterbox drop details to be recorded in the Complaints Register. Letterbox drops to occur at big project milestones, such as completion of stages, prior to Town Hall events, or any changes to traffic management which would affect the broader community.

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Email and phone	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder and	Representative with	and key stakeholders	project duration	consent, contact details
	contact details	assistance from the			shall be utilised to
	provided, contact is	PM.			provide notification or
	made via email, phone				further contact to
	and/or text message to				respond to query or
	notify or respond to				complaint.
	query or complaint.				
					Recorded contact
					details are to be kept
					private and used
					exclusively for the
					purpose of
					consultation on the
					project.
Email Mailing List	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder, an	Representative with	and key stakeholders	project duration	consent, contact details
	email mailing list to be	assistance from the			shall be utilised to
	set up to notify	PM.			provide notification or
	interested parties in				further contact to
	updates on the project.				respond to query or
					complaint.
					Recorded contact
					details are to be kept

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					private and used exclusively for the purpose of consultation on the project.
On Site Signage	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Contain key project contact details including the hotline and webpage, along with relevant project and safety information.
VMS Boards	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Inform updates on changes to traffic conditions during the road upgrade works.
Project Information and Complaints Number	Phone number to be contacted should information on the project be required or complaint lodged.	Engagement Representative with assistance from the PM	The wider community and key stakeholders	Project duration	Phone number to be included on site signage, the webpage and all project information material. Feedback provided to be incorporated into the Complaints

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					Register and actioned as required.
Staff and Visitor Induction and Training	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Key project safety information, contact details, emergency procedures and site information.
Toolbox and Prestart Meetings	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Task specific safety information, emergency procedures, and relevant project updates. All staff and subcontractors to be made aware of external and internal communication procedures.
Website	A webpage to be established for the road works	SFKC and its delivery partners	The wider community and key stakeholders	Project duration	Website address and phone number located on site signage and all project information. Webpage to detail road works, updates on traffic conditions. To be

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			utilised as a way to
			keep live updates
			available to interested
			parties.

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#### 4.4 Notification Procedure

Where notification is required, notification shall be undertaken within the timeframes outlined in the engagement strategy associated with key milestone dates on road delivery or changes to traffic conditions. Where notification is required due to a potential impact or issue, notification shall be undertaken in accordance with **Table 4** below.

#### Table 4 Notification of Potential Impact or Issue

Potential Impact or Issue	Method of Contact/Consultation	Timeframe
High noise generating work	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Vibration intensive activity	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Traffic management disruption	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours.	



	VMS boards to be updated notifying changes to traffic patterns	Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Respite offerings	Email or phone calls will be undertaken to determine whether respite is required and appropriate for scheduling and duration for respite periods	Discussion with immediate landowners no less than 7 days prior to the activity
Night Works	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	Notification of immediate landowners no less than 7 days prior to the activity Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Emergency Event	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	As soon as possible




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#### 4.5 Complaints Procedure

SFKC is committed to timely and effective management of enquiries and complaints relating to construction activities for the project. To this end, the following complaints procedure will be adhered to, enabling the receipt of recording the enquiries and complaints, along with the methods of response and resolution of issues raised.

4.5.1 Receiving and Recording Enquiries and Complaints

SFKC will establish a project email address and nominate a phone number for the receipt of enquiries and complaints relating to the development. The email account will be regularly updated monitored to receive and respond to customer feedback and enquiries. The phone number will be available for contact from the commencement of works. The project manager will manage the phoneline from the commencement of the project until the completion of works. Where call are received during hours of construction work (including out of hours works) all calls will be answered by the project manager. Where calls are received outside of hours of construction works the caller will be invited to leave a message. All approached from the community stakeholder will be registered in the project's Complaints Register.

SFKC will establish a Complaints Register to record all complaints and enquiries received. The Complaints Register will be maintained on a regular basis. The Complaints Register shall include the following details for all complaints and enquiries received:

- Date and time of complaint or enquiry
- Method by which the complaint or enquiry was made
- Name, address, contact telephone number of complainant (if no such details were provided, a note to that effect)
- Nature of complaint or enquiry
- Action taken in response including follow up contact with the complainant
- Any monitoring to confirm that the complainant or enquiry has been satisfactorily resolved; and
- If no action is taken, the reasons why no action was taken by you.
- 4.5.2 Responding to and Resolving Enquiries and Complaints

Where a complaint or enquiry is received, the engagement representative or project manager will attempt to provide an immediate response if possible via phone or email. Where a complaint or enquiry cannot be responded immediately, an assessment and prioritisation of resolving the enquiry will be undertaken with an aim to provide a





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response within two hours during construction works and 24 hours at other times. Where a complaint or enquiry cannot be resolved by the initial or follow-up response, a written response will be provided to the complainant within 10 days.

In the event of a complaint, the engagement representative will assess whether the complaint is founded or unfounded. If necessary, the engagement representative will delegate resolution of the issue to the project manager or superintendent for action with the contractor. The engagement representative will oversee the rectification of the issue and respond to the complainant once the issue has been resolved.

In the event of an enquiry, the engagement representative or project manager will endeavour to provide an immediate response where they are in possession of the relevant information. Where more specific or detailed information is required, the engagement representative will liaise with the project manager, superintendent and/or contractor to obtain the information required to respond to the enquiry and provide the information to the enquiring party once in hand.

Where the above protocol in unsuccessful in resolving complaints, mediation may be undertaken at the discretion of SFKC to facilitate negotiations between affected parties. This shall be performed with the assistance of the project manager and potentially via an independent person (mediator) appointed by SFKC as required.

4.5.3 Unreasonable Complainant Conduct

The NSW Ombudsman provides guidelines which define unreasonable complainant conduct as:

"...any behaviour by a current or former complainant which, because of its nature or frequency, raises substantial health, safety, resource or equity issues for the parties to a complaint."

While it is not envisioned that the project will attract complainants that exhibit this behaviour, where a complainant is seen to potentially have a negative impact on the engagement representative or project team's health, safety, resourcing or equity of service, SFKC shall adhere to the procedures and practices outlined within the NSW Ombudsman's *"Managing Unreasonable Complainant Conduct Practice Manual 2<sup>nd</sup> Edition"*.





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## 5. Monitoring

Monitoring will be undertaken to measure the effectiveness of community consultation, stakeholder engagement and responses to complaints and enquiries. Opportunities for improvement will be south on a continuous basis, with an annual review by the Engagement Representative undertaken to formalise these incremental improvements.

The performance of this strategy will be monitored monthly based upon an assessment of the following data:

- Total number of monthly complaints
- Review of number of monthly complaints relating to lack of consultation/ misinformation confusion
- Review of number of monthly enquiries relating to information previously disseminated to the community through other channels
- Monthly review of enquiries or complaints of a similar nature or theme indicative of underlying systematic issues with the project or engagement strategy; and
- Response timeframes, including initial acknowledgement and the response to enquiries or remediation of issue(s).

Should updates be identified, the engagement representative shall update the document and advise the DPHI of the proposed amendments.





# MAMRE ROAD/ ABBOTTS ROAD INTERSECTION ABBOTTS ROAD/ ALDINGTON ROAD Community Consultation and Complaints Handling Strategy

## 1. Introduction

#### 1.1 Background

ESR is seeking to upgrade Mamre Road/ Abbotts Road intersection under a joint delivery with Fife/Stockland and Frasers. Further, ESR is seeking to deliver Abbotts Road from the intersection to ESR's estate Westlink Industry Park Aldington Road frontage, which will tie into the proposed road works to be undertaken by Fife/Stockland and Frasers for the remaining extent of Aldington Road.

A modification application has been prepared and is currently under assessment to pull the environmental impacts of the proposed road works into ESR's existing consent, SSD- 9138102. The determination of the modification will enable issue of relevant road approvals: Works Authorisation Deed (WAD) (TfNSW) or Section 138 (Penrith City Council), which will allow ESR and its proposed contractor to deliver the works on behalf of government to support the new warehouses in the Mamre Road Precinct.

As part of the modification's assessment, Department of Planning, Housing and Infrastructure (DPHI) requested ESR to undertake community consultation to advise immediate landowners of the environmental impact associated with the proposed road works. ESR with Fife/Stockland undertook door knocking to affected residents on 16 May 2024. Outcomes of this engagement is contained at Section 2.2 of the draft *Community Consultation and Complaints Handling Strategy.* 

ESR recognises the engagement will be an ongoing process with residents as road works commence. Therefore, this draft *Community Consultation and Complaints Handling Strategy* has been prepared to support the project during its duration.

#### 1.2 Purpose

This draft *Community Consultation and Complaints Handling Strategy* (Engagement Strategy) outlines the following:



- Identification of consultation triggers and methods with adjacent landowners and residents, key stakeholders, relevant agencies and the wider community
- The tools and actions to be undertaken throughout the construction program for the road works to disseminate information through notification of relevant stakeholders
- Enquiry and compliant management protocol; and
- Monitoring and feedback mechanism.

The Engagement Strategy is anticipated to be a dynamic document. To be updated for variations in the construction program, methodology and feedback from residents.

## 1.3 Community Communications and Complaints Handling Strategy Scope

The Engagement Strategy applies to Mamre Road/ Abbotts Road intersection works and Abbotts Road/Aldington Road works associated with the Proponent and their engagement contractors. This document outlines the method, triggers, and timing of consultation, notification and complaints and queries handling required in the course of construction of the road works.

## **1.4 Project Description**

Proposed Mamre Road and Abbotts Road Intersection works are described as follows:

- a. Installation of traffic signals (TCS5186) and associated road work construction to TfNSW requirements at the intersection of Mamre Rd and Abbotts Rd, Kemps Creek:
  - i. Demolition;
  - ii. Earthworks;
  - iii. Drainage;
  - iv. Utilities;
  - v. Pavement;
  - vi. Signage and Line marking;
  - vii. Concrete works (kerb, medians, and footpaths);
  - viii. Landscaping;
  - ix. Traffic Control Signals.
- b. Installation of traffic signals and associated concrete works, signage and line marking as per the TfNSW requirements at the following intersections:
  - i. Interim Intersection 1 (TCS5180) Abbotts Rd and Aldington Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.



- ii. Intersection 2 (TCS5242) Aldington Road and DCP Road, Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.
- iii. Intersection 3 (TCS5181) Aldington Road and DCP Road Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.
- iv. Interim Intersection 4 (TCS5182) Aldington Road and DCP Road, Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.

The proposed Abbotts and Aldington Roads seeks to construct new 4 lane distributor road:

- a. Demolition;
- b. Earthworks;
- c. Drainage;
- d. Utilities;
- e. Pavement;
- f. Signage and Line marking;
- g. Concrete works (kerb, medians, and footpaths); and
- h. Landscaping.



## Figure 1 Scope of Project Works



Source: Ethos Urban



# 2. Key Stakeholders and Potential Issues

## 2.1 Key Stakeholders

The key stakeholders likely to require consultation, notification and or likely to raise comment or complaint in the course of the road works include (but are not limited to):

- Adjacent property owners or occupiers
- Landowners in the Mamre Road Precinct, not directly adjacent to the proposed road works
- Landowners outside of the Mamre Road Precinct, such as Mount Vernon residents
- Local Council (Penrith City Council)
- Transport for NSW
- NSW Police
- Department of Planning, Housing and Infrastructure
- Utility and Services Providers, including:
  - TransGrid
  - Endeavour Energy
  - o Sydney Water
- Other Interested Parties

## 2.2 Previous Consultation

The proposed road works have been documented in ESR's development application since 2021. The proponent and their representatives have undertaken consultation as part of this DA, as well as developing the for-construction design under the WAD and Section 138 process.

In addition, ESR and Fife/Stockland recently door knocked residents as part of this modification to support the proposed road works modification on 16 May 2024. Outcomes of this consultation is outlined in **Table 1** below.

Address	Lot/DP	<b>Road Works Impact</b>	Consultation Outcome		
54-72 Aldington	43/DP708347	• Directly adjacent	Attended site at 9:12AM		
Road Kemps		to proposed	<ul> <li>Vacant residential property</li> </ul>		
Creek		Aldington Road	<ul> <li>Currently operating as a basil</li> </ul>		
		works	farm		

#### Table 1 16 May 2024 Consultation Outcomes



				•	Discussed with worker the proposed road works and left
					contact information for further questions
53 Aldington Road Kemps Creek	38/DP708347	•	Directly adjacent to proposed Aldington Road works	•	Attended site at 9:16AM No one at the property Identified to reattend site in the next two weeks
269 Aldington Road Kemps Creek	8/DP253503	•	Directly adjacent to proposed Aldington Road works In proximity to Mamre Road/ Abbotts Road intersection works	•	Attended site at 10:10AM No one at the property Understood land is currently under transaction to a developer ESR and FKC to contact developer to discuss proposed road works
284-288 Aldington Road Kemps Creek	141/DP1033686	•	Directly adjacent to proposed Aldington Road works In proximity to Mamre Road/ Abbotts Road intersection works	• • • • •	Attended site at 9:26AM – 9:37AM Met with the landowner Discussed the road upgrade including environmental impacts e.g. noise, dust, etc No major issues raised Further discussions on driveway tie-in under the proposed road works. Ongoing consultation identified
282 Aldington Road Kemps Creek	142/DP1033686	•	Directly adjacent to proposed Aldington Road works In proximity to Mamre Road/ Abbotts Road intersection works	•	Attended site at 9:21AM No one at the property Met with relative at Lot 141, refer to conversation Ongoing consultation identified



287 Aldington Road Kemps Creek	11/DP296455	•	Directly adjacent to proposed Abbotts and Aldington Road works Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended site at 10:11AM – 10:30AM Met with the landowner No issues with noise Concern regarding retain fence on property boundary ESR advised proposed upgrade will not touch his fence Ongoing consultation identified ESR to organise meeting with road contractor closer to date of construction commencement to discuss protecting his fence
1016-1028 Mamre Road Kemps Creek	2/DP250002	•	Directly adjacent to proposed Abbotts and Aldington Road works Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended site 10:34AM No one at the property Identified to reattend site in the next two weeks
272 Aldington Road Kemps Creek	15/DP253503	•	Directly adjacent to proposed Aldington Road works	•	Attended site from 9:44AM- 10:09AM Met with the landowner Landowner requested to send plan for road upgrade FKC to attend her site on Monday, 20 May 2024 to discuss proposed plans Wanting to coordinate driveway access Landowner concerned regarding traffic controllers and ongoing upgrades of traffic arrangements



			<ul> <li>entering and exiting Abbotts Road</li> <li>Advised a website would be set up with a mailing list subscription</li> <li>Landowner concerned regarding length of time to upgrade road</li> <li>Requested ESR and FKC to shut down road to accelerate road upgrade.</li> <li>ESR and FKC advise this was not possible due to prohibition of using Bakers Lane for construction and operational traffic.</li> </ul>
1005-1023 Mamre Road Kemps Creek	40/DP258414	<ul> <li>Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works</li> </ul>	<ul> <li>Attended site from 10:56AM – 11:30AM</li> <li>Met with the landowner</li> <li>Concern regarding construction traffic management and stormwater</li> <li>Discuss the need to reduce the speed limit, which ESR and FKC advised would occur under the WAD</li> <li>Discussed the need to relocate the power poles</li> <li>Discussed the compulsory acquisition of Sydney Water and the proposed regional stormwater scheme</li> <li>ESR and FKC advised we could work with the landowner on impacts associated with the road works</li> <li>Discuss road tie into the proposed road upgrade</li> <li>ESR and FKC agreed to share IPART submission once</li> </ul>



20 Aldington Road Kemps Creek	44/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road</li> </ul>	<ul> <li>completed in relation to the regional stormwater matters</li> <li>ESR issued plan of road works on 17 May for information</li> <li>Outcomes of discussion were to have a follow up meeting with all landowners on western half of Mamre Road. Tentatively scheduled for the 27 May 2024</li> <li>Attended site at 9:08AM</li> <li>No one answered</li> <li>Identified to reattend site in the</li> </ul>
		works	next two weeks
983 Mamre Road Kemps Creek	39/DP258414	<ul> <li>Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works</li> </ul>	<ul> <li>Landowner attended meeting with ESR, FKC and landowner at Lot 40, DP 258414</li> <li>Refer to above consultation outcomes for further information</li> </ul>
967-981 Mamre Road Kemps Creek	38/DP258414	<ul> <li>Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works</li> </ul>	<ul> <li>Unable to attend site</li> <li>Landowner to join drop in with residents on 27 May 2024</li> </ul>
1066-1078 Mamre Road Kemps Creek	5/DP250002	<ul> <li>Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works</li> </ul>	<ul> <li>Attended site at 10:45AM</li> <li>ESR called resident and left message on 16 May 2024</li> <li>No one at property</li> <li>ESR discussed proposed works on 17 May 2024 via phone</li> <li>No major issues</li> <li>Site is currently under due diligence by a developer</li> </ul>
930-966 Mamre Road Kemps Creek	51/DP259135	<ul> <li>Directly adjacent to proposed Mamre Road/ Abbotts Road</li> </ul>	<ul> <li>Attended site at 10:48AM</li> <li>Talked to resident via intercom</li> <li>Did not want to discuss the proposed road works</li> </ul>



intersection	Left contact card should they
works	have any questions

#### 2.3 **Potential Issues and Strategies**

ESR is committed to ongoing, proactive consultation with the community and stakeholders while understanding the importance of addressing potential issues and minimising construction related impacts. **Table 2** outlines potential project issues that are likely or known to be of interest or concern to the community and stakeholders. The able also details the communications related measures and strategies that ESR and its delivery partners will undertake to manage and mitigate impacts.

Where an incident or non-compliance arises relating to environmental management and beyond the scope of matters relating to consultation, the management and mitigation measures will be handled as part of the approval under the WAD and Section 138. It is noted a Construction Environmental Management Plan is a required document to be approved by the relevant roads authority under the relevant road approval process.

Potential Issue	Potential Key Impact	Mitigation Strategy
Noise and Vibration	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with noise and vibration.	<ul> <li>ESR and FKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of noise and vibration associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement to occur during the commencement and delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to</li> </ul>

Table 2Issue Identification and Mitigation



		•	discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc. For landowners in the broader Precinct and surrounding areas, letter box drop advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list. Up to date information on current works will be accessible to all stakeholders via the project webpage. Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification via the project webpage, mailing list and letter box drop will be undertaken. The CEMP, along with the supporting Construction Noise and Vibration Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.
Air Quality	I FUCK, machinery and light vehicle	•	ESR and FKC to consult with
	movements to support the proposed	l	



road works have potential to create negative impacts associated with air quality.	•	the road corridor and advise them on the potential impacts of air quality associated with the road works. Note: This has been undertaken on 16 May 2024 Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc. For landowners in the broader Precinct and surrounding areas, letter box drops advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list. Up to date information on current works will be accessible to all stakeholders via the project webpage. Should any works be likely to connected prior to connected prior to connected prior to commencement of road works.
	•	generate impacts beyond those identified directly adjacent to the



		•	road works, notification via the project webpage, mailing list and letter box drop will be undertaken. The CEMP, along with the supporting Construction Air Quality Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.
Construction Traffic	A temporary increase in traffic movements, the movement of construction machinery to and from site, the closure of parts of road to support delivery of road works, change of traffic through movement within the road corridor	•	Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Notification to be circulated 4 weeks prior to any traffic changes to registered parties via the mailing list and letter box drop. VMS boards adjacent to the proposed road works to identify changes to road conditions prior to them occurring. The CEMP and Construction Traffic Management Plan identify specific mechanisms to manage and mitigate these impacts including Driver Code of Conduct.



			intersection arrangements such as left in, left out only.
Stormwater, Sediment Control, Erosion, Water Quality	High rainfall events could result in localised flooding. Construction could result in impacts to local water quality, associated sediment runoff.	•	Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water quality issues. The CEMP, along with the supporting Erosion and Sediment Control Plan identify specific mechanisms to manage and mitigate these impacts in accordance with the relevant Penrith City Council standards and commitments within the SSDA.
Waste Management	Earthworks and construction waste present at the site during works.	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Removal of Flora and Fauna	The removal of native and exotic flora and fauna to facilitate road works, with associated potential for impacts on safety of immediately adjacent receivers, along with biodiversity and visual amenity	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Visual Amenity and Privacy	Visual impacts of earthworks and construction activities, along with potential impacts of privacy of adjacent sensitive receivers.	•	Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Should issues arise, ESR and FKC will work with the landowner to identify appropriate mitigation methods to assist with privacy during the road works



Out of Hours Works	The identified impacts could be magnified due to the works being carried out while surrounding receivers are more likely to be home in the early morning/ evening, or asleep, with corresponding lower background noise levels.	•	Direct engagement with landowners directly adjacent to the road corridor to occur 4 weeks prior to nighttime noise works. Letter box drop to be undertaken for receivers within Mamre Road Precinct and the broader area. Website and VMS boards to be updated advising of the night time works. Concerns and appropriate mitigation to be adopted utilising the relevant management plan/ mitigation solution, such as acoustic. ESR and FKC to prepare a report to DPHI advising of concern raised by landowner and mitigation adopted to minimise impact to receiver.
Aboriginal Heritage	There is a potential for encountering items of Aboriginal Heritage during excavation.	•	Monitoring of works by appropriately qualified personnel, along with the implementation of an unexpected finds protocol in consultation with Aboriginal Stakeholders and Heritage Division of the Department of Planning, Industry and Environment The CEMP identifies specific mechanisms to manage and mitigate these impacts
Misinformation and Misunderstanding	Lack of project awareness within the wider community may result in complaints being raised by those unaware of the extent of the	•	The engagement strategy commits to provide regular updates in plain language, supported by imagery to stakeholders and the wider



	approval, with these complaints not directed through the appropriate project hotline. Unauthorised release of project information by the project team to the media, stakeholders or the community has potential to impact on project perception in the community.	•	community through public and private media. Contact details will be provided on the webpage, on site and all information issued. Information on project works, reporting and compliance is to be maintained and updated on the project website.
Emergency Event	Unforeseen emergency with the potential impact on the community either directly, or indirectly through out of hours activities that may generate additional traffic or noise.	•	Communication updates will be issued to all stakeholders during emergency events, with the CEMP identifying specific mechanisms to manage and mitigate these impacts from an environmental management perspective.



# 3. Communications and Community Liaison Representative

ESR will nominate a Communications and Community Liaison Representative (the representative) who will provide the community and stakeholders with a single point of contact for all aspects of the project, responsible for receiving and disseminating information requests and complaints, along with addressing any interface issues.

The representative will be available for contact by the local residents and the community at all reasonable times to answer any questions and address any concerns relating to the project. The representative will have up-to-date information on:

- Emerging stakeholders
- Planned construction activities
- Planned traffic arrangements
- Current landowner discussions with members of staff
- Planned community and stakeholder consultation
- Complaints and enquiries received
- Duties and accountabilities of staff; and
- Commitments to stakeholders made by ESR and the broader delivery group.

The engagement representative will be responsible for recording, actioning and provided response to comments, queries or complaints received with relation to the construction of the project and will maintain the Complaints Register.

Engagement Representative Alasdair Cameron Project Manager – Infrastructure <u>Alasdair.Cameron@esr.com</u> 0402 458 226

The representative will be supported by AT&L, which are nominated as the project manager and superintendent. Additional contacts available to be reached at are as follows:

Project Manager Alex Lohrisch AT&L Alex.L@atl.net.au 0415 398 014 CU.esr.com



Superintendent Gabriel Vermeesch AT&L Gabriel.V@atl.net.au 0447 285 607

Any queries and complaints directed to AT&L will be immediately passed to the Engagement Representative for ESR for action and response.



# 4. Community and Stakeholder Engagement

## 4.1 Objectives

The key objectives of the strategy are to:

- Keep the local community and key stakeholder informed of the progress of the road works
- Ensure that enquiries and complaints received from the community or key stakeholders are addressed and responded to in a timely and effective manner
- Inform relevant parties in advance of potential disturbances and events likely to cause
   impact
- Be good neighbours and members of the local community throughout the duration of the project
- Providing an open two communication channel to allow ongoing, iterative engagement; and
- Seek opportunities for improvement throughout the project.

#### 4.2 Conduct

In their communications and consultation with the community and key stakeholders, ESR and their representatives will comply at all times with the requirements of the *Privacy and Personal Information Protection Act 1998 (NSW)* and the *Privacy Act 1988 (Cth).* 

#### 4.3 Communication, Management and Mitigation Tools

A range of tools and techniques will be used to inform and engage with the community and stakeholders regarding the project. **Table 3** below provides an overview of the mechanisms to be utilised to notify and consult with local community and key stakeholders and measures to mitigate potential issues throughout the development.



#### Table 3 Communication Management and Mitigation Tools

Tool/ Technique	Description	Person Responsible	Audience	Frequency/timing	Specifications
Consultation Meetings	Meetings held to notify, discuss or consult on matters arising of relevance of community and/or key stakeholders. Meetings to be held either face to face or on virtual platform(s).	Engagement Representative with assistance from PM	The wider community and key stakeholders	Quarterly Town Halls to be established to update the public on the progress of the road works. One to occur prior to commencement. Town Halls to exist during the construction Additional meetings to be held on an as needs basis dependent on matters to be discussed and appropriate timing of discussions.	Details and matters to be discussed to be tailored to the purpose and aims of the meeting. Record of conversation (informal) or minutes (formal) to be recorded, retained by ESR and provided to all attendees following the meetings. A record of the discussions shall be included in the Complaints Register and actioned as required.
Complaints Register	Recording community and stakeholder interactions	Engagement Representative with assistance from PM	The wider community and key stakeholders	Project duration	The maintenance of the Complaints Register will be continually updated



	(including notifications, consultation, queries, comments and complaints), along with associated remedial actions as required				to record community engagement including information provided by ESR, feedback received and remedial action undertaken where required.
Agency Meetings	Meetings with agencies to discuss matters relevant to their agency	Engagement Representative	Relevant Agency	As required	Meetings will be held as required to address matters relevant to specific agencies. These shall be undertaken directly by ESR.
Notification Letterbox Drop	Letters would be provided to specific receivers identified as being potentially affected by construction. This may be undertaken in tandem with doorknocking.	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	Letterbox drop details to be recorded in the Complaints Register. Letterbox drops to occur at big project milestones, such as completion of stages, prior to



					Town Hall events, or any changes to traffic management which would affect the broader community.
Email and phone	Where agreed to by the stakeholder and contact details provided, contact is made via email, phone and/or text message to notify or respond to query or complaint.	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	With the stakeholders consent, contact details shall be utilised to provide notification or further contact to respond to query or complaint. Recorded contact details are to be kept private and used exclusively for the purpose of consultation on the project.
Email Mailing List	Where agreed to by the stakeholder, an email mailing list to be set up to notify interested parties in	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	With the stakeholders consent, contact details shall be utilised to provide



	updates on the project.				notification or further contact to respond to query or complaint. Recorded contact details are to be kept private and used exclusively for the purpose of consultation on the
On Site Signage	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	project. Contain key project contact details including the hotline and webpage, along with relevant project and safety information.
VMS Boards	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Inform updates on changes to traffic conditions during the road upgrade works.
Project Information and Complaints Number	Phone number to be contacted should information on the project be required	Engagement Representative with assistance from the PM	The wider community and key stakeholders	Project duration	Phone number to be included on site signage, the webpage and all



	or complaint lodged.				project information material. Feedback provided to be incorporated into the Complaints Register and actioned as required.
Staff and Visitor Induction and Training	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Key project safety information, contact details, emergency procedures and site information.
Toolbox and Prestart Meetings	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Task specific safety information, emergency procedures, and relevant project updates. All staff and subcontractors to be made aware of external and internal communication procedures.



Website	A webpage to be established for the road works	ESR and its delivery partners	The wider community and key stakeholders	Project duration	Website address and phone number located on site signage and all project information.
					Webpage to detail road works, updates on traffic conditions. To be utilised as a way to keep live updates available to interested parties.



#### 4.4 Notification Procedure

Where notification is required, notification shall be undertaken within the timeframes outlined in the engagement strategy associated with key milestone dates on road delivery or changes to traffic conditions. Where notification is required due to a potential impact or issue, notification shall be undertaken in accordance with **Table 4** below.

Potential Impact or Issue	Method of Contact/Consultation	Timeframe
High noise generating work	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	Notification of immediate landowners no less than 7 days prior to the activity
		Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Vibration intensive activity	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	Notification of immediate landowners no less than 7 days prior to the activity
		Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Traffic management disruption	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours.	Notification of immediate landowners no less than 7 days prior to the activity

#### Table 4 Notification of Potential Impact or Issue



	VMS boards to be updated notifying	Notification on webpage to be updated for
	changes to traffic patterns	broader consultation no less than 48 hours
		prior to the activity
Respite offerings	Email or phone calls will be undertaken to	Discussion with immediate landowners no
	determine whether respite is required and	less than 7 days prior to the activity
	appropriate for scheduling and duration for	
	respite periods	
Night Works	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no
	notifying of expected commencement,	less than 7 days prior to the activity
	duration, and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours
		prior to the activity
Emergency Event	Email, Text Message, or Letterbox drop –	As soon as possible
	notifying of expected commencement,	
	duration, and affected hours	



## 4.5 Complaints Procedure

ESR is committed to timely and effective management of enquiries and complaints relating to construction activities for the project. To this end, the following complaints procedure will be adhered to, enabling the receipt of recording the enquiries and complaints, along with the methods of response and resolution of issues raised.

#### 4.5.1 Receiving and Recording Enquiries and Complaints

ESR will establish a project email address and nominate a phone number for the receipt of enquiries and complaints relating to the development. The email account will be regularly updated monitored to receive and respond to customer feedback and enquiries. The phone number will be available for contact from the commencement of works. The project manager will manage the phoneline from the commencement of the project until the completion of works. Where call are received during hours of construction work (including out of hours works) all calls will be answered by the project manager. Where calls are received outside of hours of construction works the caller will be invited to leave a message. All approached from the community stakeholder will be registered in the project's Complaints Register.

ESR will establish a Complaints Register to record all complaints and enquiries received. The Complaints Register will be maintained on a regular basis. The Complaints Register shall include the following details for all complaints and enquiries received:

- Date and time of complaint or enquiry
- Method by which the complaint or enquiry was made
- Name, address, contact telephone number of complainant (if no such details were provided, a note to that effect)
- Nature of complaint or enquiry
- Action taken in response including follow up contact with the complainant
- Any monitoring to confirm that the complainant or enquiry has been satisfactorily resolved; and
- If no action is taken, the reasons why no action was taken by you.

#### 4.5.2 Responding to and Resolving Enquiries and Complaints

Where a complaint or enquiry is received, the engagement representative or project manager will attempt to provide an immediate response if possible via phone or email. Where a complaint or enquiry cannot be responded immediately, an assessment and prioritisation of resolving the



enquiry will be undertaken with an aim to provide a response within two hours during construction works and 24 hours at other times. Where a complaint or enquiry cannot be resolved by the initial or follow-up response, a written response will be provided to the complainant within 10 days.

In the event of a complaint, the engagement representative will assess whether the complaint is founded or unfounded. If necessary, the engagement representative will delegate resolution of the issue to the project manager or superintendent for action with the contractor. The engagement representative will oversee the rectification of the issue and respond to the complainant once the issue has been resolved.

In the event of an enquiry, the engagement representative or project manager will endeavour to provide an immediate response where they are in possession of the relevant information. Where more specific or detailed information is required, the engagement representative will liaise with the project manager, superintendent and/or contractor to obtain the information required to respond to the enquiry and provide the information to the enquiring party once in hand.

Where the above protocol in unsuccessful in resolving complaints, mediation may be undertaken at the discretion of ESR to facilitate negotiations between affected parties. This shall be performed with the assistance of the project manager and potentially via an independent person (mediator) appointed by ESR as required.

#### 4.5.3 Unreasonable Complainant Conduct

The NSW Ombudsman provides guidelines which define unreasonable complainant conduct as:

"...any behaviour by a current or former complainant which, because of its nature or frequency, raises substantial health, safety, resource or equity issues for the parties to a complaint."

While it is not envisioned that the project will attract complainants that exhibit this behaviour, where a complainant is seen to potentially have a negative impact on the engagement representative or project team's health, safety, resourcing or equity of service, ESR shall adhere to the procedures and practices outlined within the NSW Ombudsman's *"Managing Unreasonable Complainant Conduct Practice Manual 2<sup>nd</sup> Edition"*.



# 5. Monitoring

Monitoring will be undertaken to measure the effectiveness of community consultation, stakeholder engagement and responses to complaints and enquiries. Opportunities for improvement will be south on a continuous basis, with an annual review by the Engagement Representative undertaken to formalise these incremental improvements.

The performance of this strategy will be monitored monthly based upon an assessment of the following data:

- Total number of monthly complaints
- Review of number of monthly complaints relating to lack of consultation/ misinformation confusion
- Review of number of monthly enquiries relating to information previously disseminated to the community through other channels
- Monthly review of enquiries or complaints of a similar nature or theme indicative of underlying systematic issues with the project or engagement strategy; and
- Response timeframes, including initial acknowledgement and the response to enquiries or remediation of issue(s).

Should updates be identified, the engagement representative shall update the document and advise the DPHI of the proposed amendments.

#### 27 May 2024 Consultation Outcomes

1005-1023 Mamre Road Kemps Creek40/DP258414• Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works• Attended SFKC site from 4:05PM - 5:12PM1005-1023 Mamre Road Kemps Creek• Marre Road/ Abbotts Road intersection works• Met with the landowners • Presented landowners with drawings indicating the extent of IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.1005-1023 Kemps Creek• Directly adjacent to proposed works• Attended SFKC site from 4:05PM - 5:12PM• Presented landowners works• Met with the landowners of IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.• Residents expressed concern with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.
Mamre Roadto proposed- 5:12PMKemps CreekMamre Road/ Abbotts Road intersection works• Met with the landownersPresented landowners with drawings indicating the extent of IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.Residents expressed concern with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.
Kemps CreekMamre Road/ Abbotts Road intersection works• Met with the landowners • Presented landowners with drawings indicating the extent of IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.• Residents expressed concern with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.
<ul> <li>Abbotts Road intersection works</li> <li>Presented landowners with drawings indicating the extent of IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.</li> <li>Residents expressed concern with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.</li> </ul>
<ul> <li>intersection works</li> <li>drawings indicating the extent of IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.</li> <li>Residents expressed concern with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.</li> </ul>
worksof IN1, RE1 and ENZ land imposed on their respective properties by the relevant authorities.• Residents expressed concern with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.
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with the IN1, RE1 and ENZ mapping as they had not been consulted and believe this devalues their property.
mapping as they had not been consulted and believe this devalues their property.
consulted and believe this devalues their property.
devalues their property.
Night works were discussed as a
requirement.
Concern was raised it would be
a 24/7 activity, as indicated by
government
Developers advised this would
not be the case. Majority of the
works would occur in normal
construction hours.
Explanation was provided that
there may be periods where
night works would be required,
such as electrical diversion.
Residents understood and asked
to be kept in the loop.
It was agreed that should works
be required outside of standard
construction hours, developers
would work with residents on
schedule alternative respite
periods if requested.
Residents expressed concern
with the volume and quality of
water going into their properties
with the proposed road design.
Residents highlighted flooding
occurs on their properties now
which had never happened in
previous, more severe, rain
evenits (2022).
Developers advised that     stormustor infractivity to be
dolivered as part of the read
ungrades would assist with the
overland flow Also raised

				•	erosion and sediment control measures would be installed as part of the deliver of the works. Discussed the need to relocate the power poles and batter into their respective properties to match the future road level. Discussed the proposed temporary works zones and where permanent works occur. Discussed the ultimate design of the intersection and that we deliver only 3 legs. Developers to provide further details of the water quality and water volumes draining near their properties. Outcomes of discussion were that all landowners on western half of Mamre Road would review the additional information to be provided before considering the proposed license agreements. However at this stage, the landowners are not interested in any works within their properties
983 Mamre Road Kemps Creek	39/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended SFKC site from 4:05PM – 5:12PM Refer to above consultation outcomes for further information
967-981 Mamre Road Kemps Creek	38/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended SFKC site from 4:05PM – 5:12PM Refer to above consultation outcomes for further information



Making Sustainability Happen
# Appendix D Construction Air Quality Management Plan

# 尜SLR

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

# **Construction Air Quality Management Plan**

# LOG-E c/- AT&L

Level 7 153 Walker Street North Sydney NSW 2060

Prepared by:

#### SLR Consulting Australia Pty Ltd

Tenancy 202 Submarine School, Sub Base Platypus, 120 High Street, North Sydney NSW 2060, Australia

SLR Project No.: 610.31166.00000

20 January 2025

Revision: V2.1

Making Sustainability Happen

#### **Revision Record**

Revision	Date	Prepared By	Checked By	Authorised By
V2.1 20 January 2025 Danny Echeverri Varun Marwaha		Varun Marwaha		
V2.0	4 December 2024	Sahar Bagheri	Varun Marwaha	Varun Marwaha
V1.0	31 July 2024	Sahar Bagheri	Varun Marwaha	Varun Marwaha
	Click to enter a date.			
	Click to enter a date.			

# **Basis of Report**

This report has been prepared by SLR Consulting Australia Pty Ltd (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with LOG-E c/- AT&L (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

# **Table of Contents**

Basis	of Reporti
1.0	Introduction5
1.1	Objectives of the CAQMP5
1.2	Statutory Requirements5
2.0	Project Overview7
2.1	The Project7
2.2	Surrounding Land Uses8
2.3	Sensitive Receptors
2.4	Construction Activities
2.5	Construction Hours
2.6	Construction Contact Details
3.0	Potential Sources of Air Emissions12
4.0	Relevant Pollutants and Air Quality Criteria13
4.1	Pollutants of Concern
4.1.1	Suspended Particulate Matter
4.1.2	Deposited Dust
4.2	Ambient Air Quality Criteria
4.3	Government Air Quality Toolkit14
5.0	Existing Environment
5.1	Local Meteorology
5.2	Background Air Quality
6.0	Assessment of Dust Emissions during Construction21
7.0	Assessment of Odour Emissions During Construction
8.0	General Mitigation Measures
9.0	Performance Objectives
10.0	Complaints Register
11.0	Proposed Air Quality Monitoring Program
12.0	Contingency Management Plan
13.0	Roles and Responsibilities
13.1	Contractor's Project Manager
13.2	Contractor's Environmental Coordinator
13.3	All Workers on Site
14.0	Review and Improvement of the CAQMP
15.0	References

# **Tables in Text**

Table 1	Assessment against the Development Consents' Conditions
Table 2	Hours of Work 11
Table 3	Construction Contact List 11
Table 4	NSW EPA Impact Assessment Criteria for Particulate Matter and Nuisance Dust 
Table 5	NSW EPA Impact Assessment Criteria for Combustion Gases
Table 6	Summary of Ambient $PM_{10}$ , $PM_{2.5}$ and $NO_2$ Data - St Marys AQMS (2019 – 2023)
Table 7	Summary of Air Quality Monitoring Data at Liverpool AQMS (2019-2023) 18
Table 8	Categorisation of Dust Emission Magnitude24
Table 9	Preliminary Risk of Air Quality Impacts from Construction Activities (Uncontrolled)
Table 10	Construction Specific Mitigation Measures
Table 11	Impact Significance – Odour from Project Site
Table 12	Site-Specific Management Measures Recommended by the IAQM 28
Table 13	Summary of Parameters to Assess the Effectiveness of Control Measures 32
Table 14	Summary of On-Site Monitoring Programme
Table 15	Air Quality Contingency Management Plan for the Construction in the Project site

# **Figures in Text**

Figure 1	Project Layout	3
Figure 2	Surrounding Sensitive Receptors	)
Figure 3	Measured 1-Hour Average NO <sub>2</sub> Concentrations at St Marys AQMS (2019 – 2023)	5
Figure 4	Measured 24-Hour Average PM <sub>10</sub> Concentrations at St Marys AQMS (2019 – 2023)	,
Figure 5	Measured 24-Hour Average PM <sub>2.5</sub> Concentrations at St Marys AQMS (2019 – 2023)	7
Figure 6	Measured 1-Hour Average CO Concentrations at Liverpool AQMS (2019-2023)	}
Figure 7	Measured 8-Hour Average CO Concentrations at Liverpool AQMS (2019-2023)	)
Figure 8	Measured 1-Hour Average SO <sub>2</sub> Concentrations at Liverpool AQMS (2019-2023)	)

Figure 9	Measured 24-Hour Average SO <sub>2</sub> Concentrations at Liverpool AQMS (2019-2023)	20
Figure 10	Density of Sensitive Receptors in the Vicinity of the Site	23
Figure 11	Air Quality Monitoring Locations for the Project Site	35

# Appendices

Appendix A	Wind Roses and Rainfall Data Analysis
Appendix B	Construction Phase Risk Assessment Methodology
Appendix C	Odour Risk Assessment Methodology
Appendix D	Air Quality Notification Form
Appendix E	Curriculum Vitae of Author
Appendix F	Community Consultation Summary

# 1.0 Introduction

SLR Consulting Australia Pty Ltd (SLR) has been engaged by AT&L on behalf of the LOG-E to prepare a Construction Air Quality Management Plan (CAQMP) for the proposed Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU) Project (the Project).

The Project involves upgrade and widening of Aldington and Abbotts Roads and upgrades to the Mamre Road and Abbotts Road intersection and aims to provide for the development of land within the Mamre Road Precinct. The upgrade is being progressed by the developer group known as the Landowners Group – East (LOG-E) and is linked to their proposed developments which are accessed via Mamre Road, Abbotts Road and Aldington Road (the Project site).

#### 1.1 Objectives of the CAQMP

The objectives of this CAQMP are as follows:

- Maintain acceptable levels of amenity for surrounding receptors;
- Ensure compliance with relevant ambient air quality criteria for particulate matter and deposited dust at surrounding receptors;
- Maintain an effective response mechanism to deal with issues and complaints relating to dust emissions from the construction works;
- Outline air quality management commitments and responsibilities, including air quality compliance monitoring and reporting requirements; and
- Promote environmental awareness among employees and subcontractors.

#### 1.2 Statutory Requirements

The Development Consents' requirements stipulated for the construction of the Project site (SSD-9138102 and SSD-10479) and where they have been addressed in this CAQMP are shown in **Table 1**.

Condition Number			Response /
SSD- 10479	SSD- 9138102	Conditions	Section Reference
Dust Mir	nimisation		
D62	B74	The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.	Section 8.0
D63	B75	<ul> <li>During construction, the applicant must ensure that:</li> <li>(a) exposed surfaces and stockpiles are suppressed by regular watering;</li> <li>(b) all trucks entering or leaving the Site with loads have their loads covered;</li> <li>(c) trucks associated with the development do not track dirt onto the public road network;</li> <li>(d) public roads used by these trucks are kept clean; and</li> <li>(e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.</li> </ul>	Section 8.0

 Table 1
 Assessment against the Development Consents' Conditions

Condition Number			Response /
SSD- 10479	SSD- 9138102	Conditions	Section Reference
Construe	ction Air Qu	ality Management Plan	
D64	B76	Prior to the commencement of earthworks, the Applicant must prepare a Construction Air Quality Management Plan (CAQMP) to the satisfaction of the Planning Secretary. The CAQMP must form part of the CEMP required by condition C2 and must: (a) be prepared by a suitably qualified and experienced person(s);	2-page CV of the author is attached in <b>Appendix E</b>
		(b) be prepared in consultation with owners of adjoining residential properties (including those still occupied for residential use in the MRP), include evidence of this consultation, details of any issues raised and how the plan has responded to any issues raised during consultation;	Appendix F
		(c) detail and rank all emissions from all sources of the Development, including particulate emissions	Section 6.0
		<ul> <li>(d) describe a program that is capable of evaluating the performance of the construction and determining compliance with key criteria, including installation of dust deposition gauges at neighbouring existing residences (where agreed by the landowner) or on the site boundary;</li> </ul>	Section 11.0
		(e) identify the control measures that that will be implemented for each emission source; and	Section 8.0
		<ul> <li>(f) nominate the following for each of the proposed controls:</li> <li>(i) key criteria;</li> <li>(ii) monitoring method; and</li> <li>(iii) locations, frequency and duration of monitoring;</li> </ul>	Section 9.0
		<ul> <li>(g) outline procedures that will be implemented in relation to:</li> <li>(i) record keeping;</li> <li>(ii) reporting to the Environmental Representative required under Condition A35;</li> <li>(iii) complaints register;</li> <li>(iv) response procedures; and</li> </ul>	Section 10.0 Section 10.0 Section 10.0 Section 12.0
		(v) compliance monitoring;	Section 11.0
		(h) detail contingency measures to be implemented to reduce any exceedances of relevant performance indicators or criteria and include a timetable for implementation.	Section 12.0
D65	B77	The applicant must: (a) not commence earthworks until the Construction Air Quality Management Plan required by condition B76 is approved by the Planning Secretary; and	
		(b) implement the most recent version of the Construction Air Quality Management Plan approved by the Planning Secretary for the duration of the construction; and	Best Practice
		(c) offer to enter into an agreement with a neighbouring landowner, that may involve at-property treatment, if a complaint is received from that landowner and a non-compliance is confirmed by dust monitoring. Evidence of any agreement must be provided to the Planning Secretary.	
Odour M	lanagement		
D66	B78	The Applicant must ensure the development does not cause or permit the emission of any offensive odour (as defined in the POEO Act).	Section 7.0

Condition Number			Response /
SSD- 10479	SSD- 9138102	Conditions	Section Reference
NA	D25(d)	an air quality management plan prepared in accordance with the Good Practice Guide for the Assessment and Management of Air Pollution from Road Transport Projects, CASANZ 2023, detailing the location and duration of dust controls, details of monitoring and triggers for implementation of additional dust controls if required;	Section 8.0 Section 11.0 Section 12.0

The risk assessment and management framework outlined in Good Practice Guide for the Assessment and Management of Air Pollution from Road Transport Projects (CASANZ 2023) (from here on 'Good Practice Guide') was prepared in accordance with those prescribed by the Institute of Air Quality Management (IAQM). This CAQMP has completed the following in accordance with the IAQM and the Good Practice Guide:

- assessed the construction air quality impacts,
- listed the air quality management measures and
- listed the triggers for implementation of addiotnal dust controls (if required)

## 2.0 Project Overview

#### 2.1 The Project

The concept design for the upgrade and widening of Aldington and Abbotts Roads is expected to include approximately 2,300 m of Aldington Rd and approximately 400 m of Abbotts Road. The upgrade of Mamre Road (for TfNSW) /Abbotts Road intersection is expected to include widening 600 m south of the intersection and 200 m north of the intersection. The upgrade includes widening within the western end of Lot 1 DP250002 (north of Abbotts Road). There is no widening within the private property to the south of Abbotts Road (Lot 2 DP250002). These areas are defined as the subject Area of this CAQMP. he overall project includes land acquisition by Penrith City Council or dedication by landowners, to accommodate for the upgrade and widening. The subject area of this CAQMP is shown in **Figure 1**.

#### Figure 1 Project Layout



## 2.2 Surrounding Land Uses

As illustrated in **Figure 2**, the areas subject to AARU and MAIU are respectively zoned as General Industrial (IN1) and Infrastructure (SP2). The land to the west of the Project is zoned as IN1, with some Public Recreational (RE1) and Environment and recreation (ENZ) beyond the industrial lands. At the southeast of the project there is some Rural Landscape (RU2) and most of the land on its east is zoned as IN1.

#### Figure 2 Surrounding Land Uses



#### 2.3 Sensitive Receptors

The closest receptors to Aldington Road are residential receptors approximately 50 m and industrial receptors approximately 80 m from its kerbside, the closest receptors to Abbotts Road are residentials receptors approximately 115 m and industrial receptors approximately 25 m from its kerbside, and the closest receptors to Mamre Road are residentials receptors approximately 30 m and industrial receptors approximately 80 m from its kerbside. The identified sensitive receptors including residential and industrial/commercial receptors are shown in **Figure 2**.

#### Figure 2 Surrounding Sensitive Receptors



## 2.4 Construction Activities

At the time of writing this report, the construction of the Project is currently at detailed design stage and includes:

- Widening the road beyond the existing road reserve.
- Signalised intersections.
- Earthworks including raising and lowering road.
- Stormwater.
- Relocation of services (above and underground).
- New services (incl water, electricity, and communications).
- Site sheds, material storage as required for road construction project.
- Temporary works as necessary to facilitate construction.

#### 2.5 Construction Hours

Construction hours will be in accordance with condition B47 of SSD-9138102. The hours of operation have been outlined below in **Table 2**.

#### Table 2 Hours of Work

Activity	Day	Time
Earthworks and construction	Monday – Friday Saturday	7 am to 6 pm 8 am to 1 pm

No work Sundays or Public Holidays.

#### 2.6 Construction Contact Details

**Table 3** lists the key contacts during the Development.

#### Table 3 Construction Contact List

Role	Name	Company	Contact Details
Tim Dillon	Project Manager	Robson Civil Projects	tim.dillon@robsoncivil.com.au

# 3.0 Potential Sources of Air Emissions

The main emissions to air during the construction phase will be emissions of particulate matter (as TSP,  $PM_{10}$  and  $PM_{2.5}$ ) and nuisance dust from the movement of vehicles and construction equipment, excavation and rehabilitation, demolition, clearing and grading, truck loading and unloading and wind erosion.

During the construction works, the key potential sources of dust have been identified as:

- Dust emissions from earthworks activities (e.g. excavation and loading of soils to trucks).
- Wind-generated dust from disturbed surfaces and stockpiles.
- Wheel-generated dust and particulate matter emissions in diesel exhaust emissions from onsite plant and equipment and construction traffic movements; and
- Particulate matter associated with exhaust emissions from increased/congested traffic emissions due to road closures or diversions.

In addition to the construction activities being carried out at any point in time, a number of other environmental factors may also affect the generation and dispersion of dust emissions, including:

- Wind direction determines whether dust and suspended particles are transported in the direction of the sensitive receptors.
- Wind speed governs the potential suspension and drift resistance of particles.
- Surface type more erodible surface material types have an increased soil or dust erosion potential.
- Surface material moisture increased surface material moisture reduces soil or dust erosion potential.
- Other external factors such as current works being undertaken by others outside of the defined Project boundaries and current climatic (dry) weather conditions; and
- Rainfall or dew rainfall or heavy dew that wets the surface of the soil reduces the risk of dust generation.

Potential air quality impacts associated with the proposed construction works, and the relative risk ratings, are addressed in **Section 6.0**.

# 4.0 Relevant Pollutants and Air Quality Criteria

#### 4.1 Pollutants of Concern

As identified in **Section 3.0**, potential air pollutants of interest for the construction activities are considered to be both:

- Suspended particulate matter; and
- Deposited dust.

The following sections outline the potential health and amenity issues associated with the above pollutants, while **Section 4.2** outlines relevant air quality assessment criteria.

#### 4.1.1 Suspended Particulate Matter

Airborne contaminants that can be inhaled directly into the lungs can be classified on the basis of their physical properties as gases, vapours or particulate matter. In common usage, the terms "dust" and "particulates" are often used interchangeably. The health effects of particulate matter are strongly influenced by the size of the airborne particles. Smaller particles can penetrate further into the respiratory tract, with the smallest particles having a greater impact on human health as they penetrate to the gas exchange areas of the lungs. Larger particles primarily cause nuisance associated with coarse particles settling on surfaces.

The term "total particulate matter" (TSP) refers to a category of airborne particles, typically less than 30 microns ( $\mu$ m) in diameter. Particulate matter with an aerodynamic diameter of 10 microns or less is referred to as PM<sub>10</sub>. The PM<sub>10</sub> size fraction is sufficiently small to penetrate the large airways of the lungs, while PM<sub>2.5</sub> (2.5 microns or less) particulates are generally small enough to be drawn in and deposited into the deepest portions of the lungs. Potential adverse health impacts associated with exposure to PM<sub>10</sub> and PM<sub>2.5</sub> include increased mortality from cardiovascular and respiratory diseases, chronic obstructive pulmonary disease and heart disease, and reduced lung capacity in asthmatic children. In an urban setting, the emission of PM<sub>2.5</sub> is primarily associated with vehicles exhausts resulting from the incomplete combustion of diesel.

#### 4.1.2 Deposited Dust

**Section 4.1.1** is concerned in large part with the health impacts of particulate matter. Nuisance impacts need also to be considered, mainly in relation to deposited dust. Dust can cause nuisance by settling on surfaces and possessions, affecting visibility and contaminating tank water supplies. High rates of dust deposition can also adversely affect vegetation by blanketing leaf surfaces.

#### 4.2 Ambient Air Quality Criteria

State air quality guidelines specified by the NSW Environmental Protection Agency (EPA) for the pollutants identified in **Section 4.1** are published in the *Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales* (NSW EPA 2022) [hereafter 'Approved Methods']. The ground level air quality impact assessment criteria listed in Section 7 of the Approved Methods have been established by NSW EPA to achieve appropriate environmental outcomes and to minimise risks to human health. They have been derived from a range of sources and are the defining ambient air quality criteria for NSW and are considered to be appropriate for use in this assessment.

The impact assessment criteria listed in the Approved Methods for particulate matter and nuisance dust are shown in **Table 4**. A summary of the relevant impact assessment criteria for products of combustion is provided in **Table 7**.

Table 4	NSW EPA Impact Assessment Criteria for Particulate Matter and Nuisance Dust
---------	---

Pollutant	Averaging Period	Assessment Criteria		
Total Suspended Particulate (TSP)	Annual	90 (µg/m³)		
Derticulate Matter (DM )	Annual	50 (µg/m³)		
	24-hour	25 (µg/m³)		
Derticulate Matter (DM )	Annual	25 (μg/m³)		
	24-hour	8 (µg/m³)		
Deposited Duct	Appual	2 (µg/m³) (maximum increase in deposited dust level)		
	Annual	4 (μg/m³) (maximum total deposited dust level)		

Source: (DEC 2022)

#### Table 5 NSW EPA Impact Assessment Criteria for Combustion Gases

Pollutant	Averaging Period	Assessment Criteria	
60	1 hour	25 (ppm)	
	8 hours	9 (ppm)	
NO	1 hour	8 (pphm)	
INO <sub>2</sub>	Annual	1.5 (pphm)	
	1 hour	10 (pphm)	
502	24 hours	2 (pphm)	

Source: (DEC 2022)

<sup>a</sup> For assessments performed prior to January 2025

#### 4.3 Government Air Quality Toolkit

The NSW EPA has developed the Local Government Air Quality Toolkit (EPA 2018), in response to requests from local Council officers for information and guidance on the common air quality issues they manage. Guidance is available under Part 3 of the Local Government Air Quality Toolkit for Construction Sites, which lists the common sources of emissions, and mitigation and management measures to control airborne dust levels from construction sites and has been consulted in the development of this CAQMP.

# 5.0 Existing Environment

#### 5.1 Local Meteorology

The Bureau of Meteorology (BoM) maintains and publishes data from weather stations across Australia. The closest such station recording hourly wind speed and wind direction data is the Horsley Park Equestrian Centre Automatic Weather Station (AWS), which is located approximately 6.0 km east-northeast of the Project. Considering the distance between the Project and Horsley Park Equestrian Centre AWS, for the purpose of this assessment it has been assumed that the wind conditions recorded at the Horsley Park Equestrian Centre AWS are a reasonable representation of the wind conditions experienced at the Project site. Annual and seasonal wind roses for the years 2019 – 2023 inclusive, compiled from data recorded by the Horsley Park Equestrian Centre AWS, are presented in **Appendix A**.

#### 5.2 Background Air Quality

Air quality monitoring is performed by the NSW Environment Protection Authority (EPA) at a number of monitoring stations across NSW. The nearest EPA-operated air quality monitoring stations (AQMS) to the Project is located at St Marys. The St Marys AQMS was commissioned in 1992, and is located on a residential property 8.4 km northwest of the Project at an elevation of 29 m, and monitors the concentration levels of following air pollutants:

- Oxides of nitrogen (NO, NO<sub>2</sub> and NO<sub>x</sub>)
- Fine particles (PM<sub>2.5</sub> and PM<sub>10</sub>)

Due to unavailability of ambient concentrations for CO and SO<sub>2</sub> from St Marys AQMS, data is being sought from Liverpool AQMS. The Liverpool AQMS is located 13 km to the southeast of the Project. It was commissioned in 1991 and is located on Rose St at an elevation of 22 m.

The available air monitoring data from the St Marys AQMS are summarised in **Table 6** (red font indicates an exceedance of the relevant criterion) and presented graphically in **Figure 3** to **Figure 5**. Air monitoring data from the Liverpool AQMS are summarised in **Table 7** and presented graphically in **Figure 6** to **Figure 9**.

In summary, a review of the ambient air quality data presented in the following tables and graphs shows:

- In regard to the short-term averages, the 24-hour average PM<sub>10</sub> and PM<sub>2.5</sub> concentrations recorded by the St Marys AQMS are below the relevant 24-hour average guidelines, however isolated exceedances (normally on less than ten days per year) have been recorded in most years. The exception to this was the November 2019 to January 2020 period, when unprecedented and extensive bushfires within NSW resulted in an extended period of very elevated particulate concentrations across Sydney that were significantly above the 24-hour average PM<sub>10</sub> and PM<sub>2.5</sub> guidelines. A review of the available compliance monitoring reports indicates that the intermittent exceedance days recorded during other years were also primarily due to exceptional events such as bushfire emergencies, dust storms and hazard reduction burns.
- In regard to the long-term averages, no exceedances of the annual average PM<sub>10</sub> criterion were recorded at St Marys during the five years investigated, however the annual average PM<sub>2.5</sub> criterion was exceeded in 2019 due to the bushfire event that started in November 2019.

• Ambient concentrations of the gaseous pollutants NO<sub>2</sub>, CO and SO<sub>2</sub> were all well below the relevant criteria for all years investigated.

Pollutant		PM10		PM <sub>2.5</sub>				NO <sub>2</sub>	
Averaging Period	Maximum 24-hour	Annual	90 <sup>th</sup> percentile 24-hour	Maximum 24-hour	Annual	90 <sup>th</sup> percentile 24-hour	Maximum 1-hour	Annual	90 <sup>th</sup> percentile 1-hour
Units	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	pphm	pphm	pphm
2019	159.8	24.7		88.3	9.8		3.3	0.4	
2020	260.3	18.9		82.5	7.6		3.4	0.4	
2021	54.9	16.2	29.5	40.3	5.8	10.7	3.3	0.4	20.5
2022	29.7	12.0		12.6	3.9		3.0	0.4	
2023	42.5	16.1		36.8	5.8		3.6	0.6	
Average	96.9	15.8	29.5	43.1	5.8	10.7	3.3	0.4	20.5
Criterion	50	25	-	25	8	-	8	1.5	-

Table 6Summary of Ambient PM10, PM25 and NO2 Data - St Marys AQMS (2019 – 2023)







Figure 4 Measured 24-Hour Average PM<sub>10</sub> Concentrations at St Marys AQMS (2019 – 2023)





Pollutant		SO <sub>2</sub>		со			
Averaging Period	Maximum 1-hour	Maximum 24-hour	90 <sup>th</sup> percentile 1-hour	Maximum 1-hour	Maximum 8-hour	90 <sup>th</sup> percentile 1-hour	90 <sup>th</sup> percentile 8-hour
Units	pphm	pphm	pphm	ppm	ppm	ppm	ppm
2019	1.6	0.4		3.7	1.8		
2020	1.5	0.3		2.4	2.1		
2021	1.7	0.3	2.9	2.1	1.2	0.4	0.4
2022	1.3	0.2		1.4	1.1		
2023	2.4	0.4		1.6	1.3		
Average	1.7	0.3	2.9	2.2	1.5	0.4	0.4
Criterion	10	2	-	25	9	-	-

#### Figure 6 Measured 1-Hour Average CO Concentrations at Liverpool AQMS (2019-2023)





#### Figure 7 Measured 8-Hour Average CO Concentrations at Liverpool AQMS (2019-2023)

Figure 8 Measured 1-Hour Average SO<sub>2</sub> Concentrations at Liverpool AQMS (2019-2023)





#### Figure 9 Measured 24-Hour Average SO<sub>2</sub> Concentrations at Liverpool AQMS (2019-2023)

The monitoring data for CO,  $NO_2$  and  $SO_2$  indicate that the respective air quality criteria (short term and long term) for these pollutants are achieved at the St Marys AQMS and the Liverpool AQMS. Other points to note are:

- Exceedances of the 24-hour average PM<sub>10</sub> criterion were recorded by the St Marys AQMS in all years except 2022 and 2023,
- Exceedances of the 24-hour average PM<sub>2.5</sub> criterion were recorded in all years except 2022,

A review of these recorded exceedances indicate that they were associated with natural events such as bushfires or dust storms, or hazard reduction burns.

In summary, the St Marys AQMS data and the Liverpool AQMS data show that background particulate levels in Sydney can be elevated at times. Effective mitigation measures therefore need to be implemented during the construction and operation so that the activities do not contribute to any additional exceedances of air quality criteria in the surrounding area.

# 6.0 Assessment of Dust Emissions during Construction

The key potential air pollution and amenity issues associated with fugitive dust emissions from the construction of the Project are:

- Annoyance due to dust deposition (soiling of surfaces) and visible dust plumes
- Elevated suspended particulate concentrations (PM<sub>10</sub>).

A quantitative modelling assessment of potential dust emissions associated with the construction activities would require a number of assumptions to be made to enable the estimation of particulate emission rates for input into the models. The uncertainty associated with the output of such studies means it would be of limited value and would not (in itself) assist with the identification of air quality control measures to actively manage the risks.

SLR will therefore perform a qualitative (risk-based) assessment of construction impacts, based on the information available, to identify those activities that have the potential for off-site air quality impacts if not adequately controlled, so that appropriate mitigation measures can be identified.

For the assessment of construction phase impacts, the *IAQM Guidance on the Assessment of Dust from Demolition and Construction,* developed in the United Kingdom by the Institute of Air Quality Management (IAQM 2024), has been used to provide a qualitative assessment method (see **Appendix B** for full methodology). The IAQM method uses a four-step process for assessing potential dust impacts from construction activities:

- **Step 1** is to screen the requirement for a more detailed assessment. No further assessment is required if there are no receptors within a certain distance of the works.
  - As a 'human receptors' are located within 250 m of the boundary of the Project site, further assessment is required. For the purpose of this assessment, the number of residential/recreational receptors is estimated to be 10-100 within 50 m and the number of industrial/commercial receptors is estimated to be between 10-100 within 100 m of the Project site boundary (see Figure 10).
- **Step 2** is to assess the risk of dust impacts. This is done separately for each of the four activities (demolition, earthworks, construction, and trackout) and take account of:
  - Potential dust emission magnitude (Step 2A)
    - Based upon the IAQM definitions presented in **Appendix B**, the dust emission magnitudes for each phase of the construction works have been categorised as presented in **Table 8**. It should be noted that although no demolition is planned as part of the construction, it is conservatively considered to be of small magnitude.
  - The sensitivity of the area (**Step 2B**)
    - Based on the classifications shown in Table B2 and Table B3 in Appendix B, the sensitivity of the area to dust soiling may be classified as *medium* for residential/recreational receptors and *low* for industrial/commercial receptors. The sensitivity of the area to human health effects is classified as *low* for both types of receptors. This categorisation has been made taking into account the individual receptor sensitivities (high for residential/recreational receptors and medium for industrial/commercial receptors), the 5-year mean background PM<sub>10</sub> concentration of 15.8 µg/m<sup>3</sup> recorded at St Marys AQMS (see Section 5.2) and the existing number of sensitive receptors present in the vicinity of the site (i.e. between 10-100 residential/recreational receptors within 50 m and between 10-100 industrial/commercial receptors within 100 m of the Project site).
      - Define the risk of impacts (**Step 2C**)

- Based on the IAQM methodology, the overall air quality risk from the project construction activities is rated as *medium* for residential/recreational receptors and *low* for both industrial/commercial receptors (refer **Table 9**).
- Step 3 is to determine site-specific mitigation (in addition to basic project controls) for each of the four potential activities in Step 2.
  - Table 10 provides the mitigation measures targeting the potential impacts from earthworks, construction, and trackout. Implementing these measures may reduce the risk of these impacts from *medium* to *low* for residential/recreational receptors and from *low* to *negligible* for industrial/commercial receptors. These measures are designated as highly recommended (H) or desirable (D) by the dust IAQM method. Refer Section 8.0 for general mitigation measures.
- Step 4 is to examine the residual effects and to determine whether these are significant.
  - The mitigated dust soiling impacts are anticipated to be *low* and *negligible* respectively for residential/recreational and industrial/commercial receptors. For both industrial/commercial and residential/recreational receptors, the mitigated human health impacts are anticipated to be *negligible* with the implementation of the recommended management measures.

Based on the dust emission magnitudes and the preliminary risk from these activities, the activities are ranked as (highest risk to lowest risk):

- 1. Earthworks
- 2. Trackout
- 3. Construction
- 4. Demolition



#### Figure 10 Density of Sensitive Receptors in the Vicinity of the Site

#### Table 8 Categorisation of Dust Emission Magnitude

Activity	Dust Emission Magnitude	Basis
Demolition	Small	<ul> <li>IAQM Definition: Total building volume &lt;12,000 m<sup>3</sup>, construction material with low potential for dust release (e.g. metal cladding or timber), demolition activities &lt;6 m above ground, demolition during wetter months.</li> <li>Relevance to this Project: No major demolition is planned as part of the Project construction.</li> </ul>
Earthworks	Large	<b>IAQM Definition:</b> Total site area >110,000 m <sup>2</sup> , potentially dusty soil type (e.g., clay, which will be prone to suspension when dry due to small particle size), >10 heavy earth moving vehicles active at any one time, formation of bunds >6 m in height. <b>Relevance to this Project:</b> <i>Total area of the Project is estimated to be approximately 190,000 m<sup>2</sup>.</i>
Construction	Small	IAQM Definition:Total building volume <12,000 m³, construction material with low potential for dust release (e.g. metal cladding or timber).Relevance to this Project:Minor construction of sheds and material storage is planned as part of the Project.
Trackout	Large	IAQM Definition: >50 HDV (>3.5t) outward movements in any one day, potentially dusty surface material (e.g., high clay content), unpaved road length >100 m Relevance to this Project: It is estimated that more than 50 heavy vehicles movements per day will occur during the peak construction period.

#### Table 9 Preliminary Risk of Air Quality Impacts from Construction Activities (Uncontrolled)

			Dust Emission Magnitude				Preliminary Risk with no mitigation											
Receptor Type	Impact	Sensitivity of Area	Demolition	Earthworks	Construction	Trackout	Demolition	Earthworks	Construction	Trackout	Maximum							
Industrial or	Dust Soiling	Medium					Low	Medium	Low	Medium	Medium							
Commercial	Human Health	Low	all	Small Large	ge.	ge	ge	ЭĠ	Large Small	ge nall	all	lall	eg.	Negligible	Low	Negligible	Low	Low
Residential	Dust Soiling	Low	Srr		Sn Lai	Srr	Srr	Sm		Srr Lar	Negligible	Low	Negligible	Low	Low			
recreational	Human Health	Low							Negligible	Low	Negligible	Low	Low					

#### Table 10 Construction Specific Mitigation Measures

Mitigation Measure	Industrial Commercial	Residential Recreational
Earthworks		
Re-vegetate earthworks and exposed areas/soil stockpiles to stabilise surfaces as soon as practicable.	N	D
Use Hessian, mulches or trackifiers where it is not possible to revegetate or cover with topsoil, as soon as practicable.	N	D
Only remove the cover in small areas during work and not all at once, where practical.	Ν	D
Construction		
Avoid scabbling (roughening of concrete surfaces) if possible.	D	D
Ensure sand and other aggregates are stored in bunded areas and covered in high winds. Stockpiles are not allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	D	н
Ensure bulk cement and other fine powder materials are delivered in enclosed tankers and stored in silos with suitable emission control systems to prevent escape of material and overfilling during delivery.	N	D
For smaller supplies of fine power materials ensure bags are sealed after use and stored appropriately to prevent dust.	N	D
Trackout		
Use water-assisted dust sweeper(s) and rumble grids on the access and local roads to remove, as necessary, any material tracked out of the site. This may require the sweeper being continuously in use, rumble grids properly installed, and stabilised site access.	D	н
Avoid dry sweeping of large areas.	D	Н
Ensure vehicles entering and leaving sites are covered to prevent escape of materials during transport.	D	Н
Inspect on-site haul routes for integrity and instigate necessary repairs to the surface as soon as reasonably practicable.	N	н
Record all inspections of haul routes and any subsequent action in a site log book.	D	Н
Install hard surfaced haul routes, which are regularly damped down with fixed or mobile sprinkler systems, or mobile water bowsers and regularly cleaned.	N	Н
Ensure there is an adequate area of hard surfaced road between the wheel wash facility and the site exit, wherever site size and layout permits.	N	н
Access gates to be located at least 10 m from receptors where possible.	N	Н

# 7.0 Assessment of Odour Emissions During Construction

To assess the odour nuisance risk, a qualitative odour assessment methodology has been adopted for this assessment. The following broad risk-based approach prescribed by the Institute of Air Quality Management (IAQM 2018) has been adopted:

- Nature of Impact: does the impact result in an adverse or beneficial environment?
- **Receptor Sensitivity**: how sensitive is the receiving environment to the anticipated impacts? This may be applied to the sensitivity of the environment in a regional context or specific receptor locations.
- Magnitude: what is the anticipated scale of the impact?

The integration of sensitivity with impact magnitude is used to derive the predicted **significance** of that change. Full details of the methodology can be found in **Appendix C**.

In regard to the odour nuisance impacts, by addressing the FIDOL (Frequency, Intensity, Duration, Offensiveness and Location) factors, the potential for odour impacts from this source at the sensitive receptors may be evaluated.

- **Frequency** the surrounding sensitive receptors located to the west, east, and south of the Project site (see **Section 2.3**) have a low potential to experience odour impacts since no obvious odour sources are available within the Project site. Furthermore, easterly, westerly, and northerly winds occur less than 6% of the time, therefore there is a low likelihood that the surrounding receptors would experience frequent potential odour impacts from the Project site.
- **Intensity** based on the activities within the Project site, the odour emissions from the Project site are expected to be negligible. Given this, odours from the Project site at the surrounding receptors are likely to be of low intensity and generally of intermittent/infrequent nature.
- **Duration** Given that conducive wind directions only occur approximately 6% of the time and that there are no notable odour emission sources on Project site, the potential duration of any odour impacts is concluded to be low.
- **Offensiveness** Given the nature of the activities held at the Project site, the very low intensity odours that may be detectable beyond the boundary of the Project site would be expected to have a low level of offensiveness.
- **Location** the impact of location on the acceptability of odours from the Project site has been accounted for by the surrounding receptors sensitivity classifications detailed above in this section (high).

Given the above, the potential impact of odour emissions from the Project site is considered to be *negligible* (ie Impact is predicted to cause no significant consequences) for the Project site (see **Table 11**).

#### Table 11 Impact Significance – Odour from Project Site

Potential Odour	Receptor Sensitivity						
Exposure Impact	Low Medium		High				
Very Large	Moderate adverse	Substantial adverse	Substantial adverse				
Large	Slight adverse	Moderate adverse	Substantial adverse				
Medium	Negligible	Slight adverse	Moderate adverse				
Small	Negligible	Negligible	Slight adverse				
Negligible	Negligible	Negligible	Negligible				

In line with the IAQM method, it is concluded that the overall effect is 'negligible'.

# 8.0 General Mitigation Measures

As per **Section 6.0**, construction works at the Project site pose a *low* risk to neighbouring sensitive receptors during earthworks, construction, and trackout phases. Nonetheless, in accordance with best practice construction methodology, and minimise potential for cumulative impacts on local air quality during periods of high background concentrations, a range of dust mitigation measures will be implemented during the construction works to minimise dust emissions.

 Table 12 lists the mitigation measures to be adopted during the construction works.

Environmental Management Control	Person Responsible	Timing / Frequency	Reference / Notes	
Communications				
The Community Communications Strategy will be implemented.	Communications and Community Liaison Representative	Prior to	Best practice	
The name and contact details of person(s) accountable for air quality and dust issues will be displayed on the site boundary. This may be the Contractor's Project Manager.	CCLR Project Manager	commencing construction and ongoing		
The Project hotline information will be displayed on site signage.				
Site Management				
All dust and air quality incidents will be undertaken as per <b>Section 10.0</b> of this CAQMP.		Ongoing	<b>Section 10.0</b> of	
All dust and air quality complaints will be undertaken as per <b>Section 10.0</b> of this CAQMP.		Ongoing	this document	
Where excessive dust events occur (i.e. prolonged visual dust in a particular area), additional watering of dust producing activities will be undertaken or activities temporarily halted until such times that the dust source is under control.	Contractor's Project Manager	During excessive dust events	Best practice	
Horsley Park Bureau of Meteorology station weather forecast will be reviewed daily (i.e. wind, rain) to inform site dust management procedures for the day.		Daily		
Preparing and Maintaining the Site				
All reasonable steps to minimise dust generated will be undertaken during construction.				
Exposed surfaces and stockpile will be suppressed by regular watering or use of approved dust suppressants.	Contractor's Project Manager	Ongoing	Best practice	
Land stabilisation works will be carried out in such a way on site to minimise exposed surfaces.				

 Table 12
 Site-Specific Management Measures Recommended by the IAQM

Environmental Management Control	Person Responsible	Timing / Frequency	Reference / Notes
Dust generating activities in areas close to receptors will be closely monitored and additional mitigation applied as required to best manage potential dust emissions			
Stockpiles that will be in place for more than 20 days and are not actively used as well as any stockpiles that are susceptible to wind or water erosion will be suitably protected from erosion within 10 days of the establishment of each stockpile.			
Temporary stabilisation of disturbed surfaces will be undertaken within two weeks of the stockpile being established.			
Operating Vehicle/Machinery and Sustainable Trave	el		
Trucks associated with construction works will not track dirt off site and onto the public road network.			
Project access roads used by delivery trucks will be kept clean.			
All on-road vehicles will comply with relevant vehicle emission standards (prescribed by the NSW RMS), where applicable, and will be maintained in good condition, in accordance with manufacturer's specifications and POEO Act.			
Delivery trucks will switch off engines whilst undertaking a delivery on-site, if idling time is likely to exceed 5 minutes.	Contractor's Project Manager	Ongoing	Best practice
Vehicle speed limit restrictions are implemented on site, including: General - 20km/h High risk area - 10km/h			
Haul routes – 50 km/h			
Truck queuing and unnecessary trips will be minimised through logistical planning and by the identification and use of specific park up/hold areas away from the Project.			
Operations			
Only cutting, grinding or sawing equipment fitted with suitable dust suppression systems, such as water sprays will be used.	Contractor's		
Adequate water supply will be available on the site for effective dust/particulate matter suppression/ mitigation using a combination of potable and non- potable water sources.	Project Manager	Ongoing	Best practice

Environmental Management Control	Person Responsible	Timing / Frequency	Reference / Notes	
Water carts will be used on all stripped or exposed surfaces and unsealed roads to minimise dust emissions.				
Equipment, inclusive of, but not limited to Environmental spill kits will be readily available on site to clean any dry spillages and clean up spillages as soon as reasonably practicable after the event using wet cleaning methods.	Contractor's	Ongoing		
Works will be assessed during strong winds or in weather conditions where high levels of airborne particulates may potentially impact the sensitive receivers. Works should be stopped if excessive airborne particulates are generated. Continual monitoring of wind speed and direction will be undertaken to guide this decision and ensure that adequate mitigation measures are undertaken	Project Manager	Continuously and during high winds		
Waste Management				
All trucks entering or leaving the Site will have their loads covered.	Contractor's	Ongoing	Best practice	
No waste materials, timbers or any other combustible materials will be burnt on site.	Project Manager	Chigoling		
Earthworks				
Scopes of work will be planned in such a way to assist in minimising the duration that surfaces are left stripped		Ongoing		
Rehabilitation of disturbed surfaces will be undertaken within 20 days of final construction levels.	Contractor's Project Manager	Within 20 days of final construction levels	Best practice	
If unanticipated strong odours or significant visual dust emissions are noted or observed on site, an investigation will be undertaken by the Contractor's Project Manager to identify the scope of work or source of the emission prior to undertaking and applying any additional mitigation measures.		Ongoing		
Construction				
Sand and other aggregates will not be allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place.	Contractor's Project Manager	Ongoing	Best practice	
Sand and other aggregates will not be allowed to dry out, unless this is required for a particular process, in which case ensure that appropriate additional control measures are in place. <b>Trackout</b>	Contractor's Project Manager	Ongoing	Best practice	

Environmental Management Control	Person Responsible	Timing / Frequency	Reference / Notes
Record all regular inspections and maintenance undertaken of site haul routes and project related access roads in a site log book or similar.			
A wheel washing system and/or cattle grid system (with rumble grids to dislodge accumulated dust and mud prior to leaving the site) will be implemented.			

# 9.0 Performance Objectives

As required by condition B76 (e), **Table 13** summarises the performance objectives identified to assess the effectiveness of the control measures shown in **Section 8.0**.

Table 13	Summar	of Parameters to Assess the Effectiveness of Control Measures
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Parameter	Visible Dust	Dust Deposition	PM <sub>10</sub>	Complaints
Key Performance Indicator	No visible dust leaving the Project site Boundary	<4g/m²/month	200 µg/m³ 1 hour average 60 µg/m³ 24 hour average	No complaints related to dust or other air quality issues
Monitoring Method	Visual inspection/observations	Dust Deposition gauges	Real-time monitor (appropriate to construction dust monitoring)	-
Location, frequency, and duration of monitoring	Daily onsite inspection	Section 11.0	Section 11.0	-
Record keeping		In a logbook (or similar)		
Response Procedures		Section 12.0		
Compliance Monitoring	-	-		Section 11.0



# 10.0 Complaints Register

A Complaints Register will be maintained during construction and will contain the following:

- A copy of the environmental complaint handling procedure;
- A separate reference sheet containing the contact details;
- Blank hard copies of the Complaint Enquiry Form; and

Copies of all completed Complaint Enquiry Forms, which are to be maintained for at least five years after the event to which they relate.

# 11.0 Proposed Air Quality Monitoring Program

As discussed in **Section 6.0**, the risk of construction dust emissions causing nuisance impacts at offsite sensitive receptor locations is concluded to be low. It is also noted that any impacts will be temporary and managed through the implementation of appropriate mitigation measures (see **Section 8.0**).

Air quality monitoring program is recommended to start 3 months prior to the start of construction works to get a baseline regarding air quality in the vicinity of the Project site. The dust gauges should be installed in compliance with the AS/NZS 3580.1.1:2016 and changed every 30 days. The results will be compared against NSW EPA criterion stated in **Section 4.2**. Furthermore, visually assessing the dust levels and the effectiveness of any dust controls that have been implemented, which may include engaging additional resources to reduce or mitigate the risk of dust leaving the Project site is recommended.

Real-time  $PM_{10}$  monitoring is recommended at the sensitive receptors located nearest to construction on the northeast of the road construction. The real-time monitor should be installed in compliance with the AS/NZS 3580.1.1:2016 and monitored by a suitably qualified individual. The results will be compared against NSW EPA criterion stated in **Section 4.2**.

A summary of the proposed on-site air quality monitoring programme at the Project site is shown in **Table 14**.

Pollutant	Equipment Used	Number of Monitoring Sites	Criterion (Averaging Period)
Deposited dust	Dust Deposition Gauges (DDGs)	5	4 g/m²/month (annual average)
PM <sub>10</sub>	Real-time monitor	Multiple monitors will be provided by the contractor to suit various stages of works being completed at the time	200 µg/m³ (1 hour average) 60 µg/m³ (24 hour average)

#### Table 14 Summary of On-Site Monitoring Programme

It is noted that the probable locations of the air quality monitors will be dependent on a range of factors such as (but not limited to) site access, equipment security and staging/location of the actual construction works. For example, the location of the real time monitor may have to be moved periodically to capture the downwind impacts of the construction works.

The locations and numbers of the probable locations of the air quality monitors are shown in Figure 11.




#### 12.0 Contingency Management Plan

The air quality contingency management plan for the construction activities is shown in **Table 15**. As noted in **Section 11.0**, data from the ongoing monitoring program will be utilised to inform the appropriate contingency response for the development.

 Table 15
 Air Quality Contingency Management Plan for the Construction in the Project site

Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
	Trigger	Daily inspections show that there is no visible dust leaving the site.	Daily inspections show that there is visible dust leaving the site.	Daily inspections show that there is visible dust leaving the site multiple times during a day OR from multiple locations within the site.
Visible dust leaving the site	Response	Continue monitoring program as normal.	Review and investigate construction activities and respective control measures. Where appropriate, implement additional remedial measures, such as: Deployment of additional water sprays, water trucks etc	Undertake an investigation of the dust generating activities, and if necessary, temporarily halt the dust generating activities
Dust deposition reading of >4g/m²/month	Trigger	Dust deposition rates are less than 4 g/m <sup>2</sup> /month at all the dust gauges.	Dust deposition rate greater than 4 g/m²/month is recorded by any of the dust gauges	Dust deposition rates greater than 4 g/m²/month are recorded by two or more dust gauges for two months in a row.



Key Element	Trigger / Response	Condition Green	Condition Amber	Condition Red
	Response	Continue monitoring program as normal.	<b>LOG-E c/- AT&amp;L</b> Project Managers to analyse data to try to identify the source(s) of dust. Construction Contractor to review operations to reduce dust emissions from the identified key source(s). Implement any additional mitigation measures as required, such as additional watering.	Project Managers to review and investigate construction activities and respective control measures for the monitoring period. If it is concluded that construction activities were directly responsible for the exceedance (i.e. the exceedance event was not caused due to high regional dust levels or local non-project dust source), Construction Contractor to submit an incident report to government agencies.
Quanda inte	Trigger	There are no complaints received during the construction	An air-quality related complaint is received from a nearby resident	Further complaints are received from the same complainant after the additional mitigation measures have been implemented
Complaints received regarding nuisance dust	Response	Continue monitoring program as normal.	Review and investigate construction activities and increase dust suppression measures (additional watering, covering stockpiles etc), where appropriate.	Consider including real time monitors to measure $PM_{10}$ and $PM_{2.5}$ . Review real-time monitoring data at the continuous monitors to investigate the likelihood of onsite activities contributing to the complaints (see <b>Appendix D</b> ).



### 13.0 Roles and Responsibilities

The key responsibilities specifically for dust management are as follows:

#### 13.1 Contractor's Project Manager

- Ensuring appropriate resources/plant/personnel are available for the implementation of this CAQMP;
- Assessing data from inspections and providing project-wide advice to ensure consistent approach and outcomes are achieved;
- Providing necessary training for project personnel to cover air quality management;
- Assessing and engaging (as required) additional mitigation controls to best manage the risks of elevated dust levels before commencing works each day and ensuring that the appropriate controls are implemented and effective;
- Reviewing weather forecasts daily and current observations of meteorological conditions (as recorded at Horsley Park AWS);
- Ceasing particular scopes of works as required in the event of excessive dust generation due to extreme weather conditions or inadequately controlled construction activities (eg high winds, surface dirt accumulation, etc.); and
- In the event that an air quality complaint is received, it is registered in the complaints register in accordance with **Section 10.0** of this CAQMP.

#### 13.2 Contractor's Environmental Coordinator

- Undertaking dust monitoring program; and
- Review that control measures are working in accordance with the CAQMP.

#### 13.3 All Workers on Site

- Observing any dust emission control instructions and procedures that apply to their work;
- Taking action to prevent or minimise dust emission incidents; and
- Identifying and reporting dust emission incidents.

#### 14.0 Review and Improvement of the CAQMP

The review of the CAQMP will be undertaken in accordance with the requirements of the development consent and will include participation by AT&L. The review will comprise, as a minimum, the following:

- Identification of areas of opportunity for ongoing improved environmental performance;
- Analysis of the causes of any recorded non-compliances, including those identified in environment inspections and audits;
- Verification of the effectiveness of corrective and preventative actions; and
- Highlighting any changes in procedures resulting from process improvement.

This CAQMP will also be reviewed and, if necessary, revised in the following circumstances:

- Where there is any change to the scope of the construction activities and/or disturbance footprint;
- Where it is identified that the environmental performance is not meeting the objectives of the CAQMP;
- In the event of a substantiated complaint being received regarding air quality impacts; and/or
- At the request of a relevant regulatory authority.

#### 15.0 References

- DEC. 2022. Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales. Department of Environment and Conservation NSW.
- EPA. 2022. Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales. Environment Protection Authority NSW.
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- EPA NSW. 2021. "Local government air quality toolkit Module 3: Guidelines for managing air pollution."
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# Appendix A Wind Roses and Rainfall Data Analysis

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

**Construction Air Quality Management Plan** 

LOG-E c/- AT&L

SLR Project No.: 610.31166.00000

20 January 2025



#### Wind Conditions

Local wind speed and direction influence the dispersion of air pollutants. Wind speed determines both the distance of downwind transport and the rate of dilution as a result of 'plume' stretching. Wind direction, and the variability in wind direction, determines the general path pollutants will follow and the extent of crosswind spreading. Surface roughness (characterised by features such as the topography of the land and the presence of buildings, structures and trees) affects the degree of mechanical turbulence, which also influences the rate of dispersion of air pollutants.

The Bureau of Meteorology (BoM) maintains and publishes data from weather stations across Australia. The closest such station recording hourly wind speed and wind direction data is the Horsley Park Equestrian Centre Automatic Weather Station (AWS), which is located approximately 6.0 km east of the Project. Considering the distance between the Project and Horsley Park Equestrian Centre AWS, for the purpose of this assessment it has been assumed that the wind conditions recorded at the Horsley Park Equestrian Centre AWS are a reasonable representation of the wind conditions experienced at the Project site. Annual and seasonal wind roses for the years 2019 – 2023 inclusive, compiled from data recorded by the Horsley Park Equestrian Centre AWS, are presented in **Figure A1**.

The wind roses show the frequency of occurrence of winds by direction and strength. The bars correspond to the 16 compass points (degrees from north). The bar at the top of each wind rose diagram represents winds blowing from the north (i.e. northerly winds), and so on. The length of the bar represents the frequency of occurrence of winds from that direction, and the widths of the bar sections correspond to wind speed categories, the narrowest representing the lightest winds. Thus it is possible to visualise how often winds of a certain direction and strength occur over a long period, either for all hours of the day, or for particular periods during the day.

The annual wind roses for the years 2019 - 2023 (**Figure A1**) indicate that the predominant wind directions in the area are from the southwest direction. The annual average frequency of calm wind conditions was recorded to be approximately 20.5% for the 2018 - 2022 period.

The seasonal wind roses for the years 2019 – 2023 indicate that:

- In summer, the majority of winds blew from eastern and southern quadrants, with very few winds from the north-western quadrant. Calm wind conditions were observed to occur approximately 17.6% of the time during summer.
- In autumn and winter, the majority of winds blew from southwest direction with very few winds from north-eastern quadrant. Calm wind conditions occur approximately 23.5% and 22.4% of the time during autumn and winter respectively.
- In spring, the winds blew almost evenly from all directions. Calm wind conditions occur approximately 18.5% of the time during spring.

The nearest sensitive receptors identified in **Section 2.3** are the west and south of Aldington Road and Abbotts Road respectively. Winds from the east and north directions, which would blow air emissions from the Project towards the nearest sensitive receptors occur less than 6% of the time annually.



Figure A1 Annual and Seasonal Wind Roses – Horsley Park Equestrian Centre AWS (2019 – 2023)

Wind erosion of dust from exposed surfaces (ie, during the construction phase of the development) is usually initiated when wind speeds exceed the threshold friction velocity for a given surface or material, however a general rule of thumb is that wind erosion can be



expected to occur above 5 m/s (USEPA 2006). The frequency of wind speeds for the period of 2019 – 2023 is presented in **Figure A2**. The plot showed that the frequency of wind speeds exceeding 5 m/s for the period 2018-2022 at Horsley Park AWS was approximately 4.9%.



Figure A2 Wind Speed Frequency Chart for Horsley Park AWS – 2019 – 2023

#### Rainfall

Dry periods (no rainfall) have the greatest potential for fugitive dust emissions during construction. The long-term monthly rainfall averages recorded at Horsley Park AWS rain gauge are shown in **Figure A3**. It is noted that generally rainfall is relatively low in mid-winter to mid spring periods. This rainfall pattern suggests that dust emissions from the construction activities at the Project site have the greatest potential to impact on receptors for the period of late autumn to early spring.





# Appendix B Construction Phase Risk Assessment Methodology

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

**Construction Air Quality Management Plan** 

LOG-E c/- AT&L

SLR Project No.: 610.31166.00000

20 January 2025



#### Step 1 – Screen the Need for a Detailed Assessment

The Step 1 screening criteria provided by the IAQM guidance suggests screening out any assessment of impacts from construction activities where sensitive receptors are located more than 250 m from the boundary of the site, more than 50 m from the route used by construction vehicles on public roads up to 250 m from the site entrance. This step is noted as having deliberately been chosen to be conservative and will require assessments for most projects.

#### Step 2a – Define the Potential Dust Emission Magnitude

The dust emission magnitude is based on the scale of the anticipated works and should be classified as Small, Medium, or Large. The following are examples of how the potential dust emission magnitude for different activities can be defined. Note that, in each case, not all the criteria need to be met, and that other criteria may be used if justified in the assessment. Where relevant, multiple screening assessments may be completed for different development phases (or even sub-phases where demolition may be brief or there is a very short period of intense activity, for example). This may particularly be the case for linear schemes (i.e. new roads, railways).

Example definitions for Demolition are as follows. Alternative screening values may be used here this is justified based on a particular scheme:

- Large: Total building volume >75,000 m<sup>3</sup>, potentially dusty construction material (e.g. concrete), on-site crushing and screening, demolition activities >12 m above ground level
- Medium: Total building volume 12,000 m<sup>3</sup> 75,000 m<sup>3</sup>, potentially dusty construction material, demolition activities 6-12 m above ground level
- **Small**: Total building volume <12,000 m<sup>3</sup>, construction material with low potential for dust release (e.g. metal cladding or timber), demolition activities <6 m above ground, demolition during wetter months.

Earthworks will primarily involve excavating material, haulage, tipping and stockpiling. This may also involve levelling the site and landscaping. Example definitions for earthworks are:

- **Large**: Total site area >110,000 m<sup>2</sup>, potentially dusty soil type (e.g., clay, which will be prone to suspension when dry due to small particle size), >10 heavy earth moving vehicles active at any one time, formation of bunds >6 m in height
- Medium: Total site area 18,000 m<sup>2</sup> 110,000 m<sup>2</sup>, moderately dusty soil type (e.g., silt), 5-10 heavy earth moving vehicles active at any one time, formation of bunds 3 m 6 m in height
- **Small**: Total site area <18,000 m<sup>2</sup>, soil type with large grain size (e.g., sand), <5 heavy earth moving vehicles active at any one time, formation of bunds <4 m in height.

Construction: The key issues when determining the potential dust emission magnitude during the construction phase include the size of the building(s)/infrastructure, method of construction, construction materials, and duration of build. Example definitions for Construction are:

- *Large:* Total building volume >75,000 m<sup>3</sup>, on site concrete batching, sandblasting
- Medium: Total building volume 12,000 m<sup>3</sup> 75,000 m<sup>3</sup>, potentially dusty construction material (e.g., concrete), on site concrete batching
- **Small:** Total building volume <12,000 m<sup>3</sup>, construction material with low potential for dust release (e.g., metal cladding or timber).

Trackout: Factors which determine the dust emission magnitude are vehicle size, vehicle speed, vehicle numbers, geology and duration. As with all other potential sources, professional judgement must be applied when classifying trackout into one of the dust emission magnitude categories. Example definitions for trackout are:

- *Large:* >50 HDV (>3.5t) outward movements in any one day, potentially dusty surface material (e.g., high clay content), unpaved road length >100 m
- *Medium:* 20-50 HDV (>3.5t) outward movements in any one day, moderately dusty surface material (e.g., high clay content), unpaved road length 50 m 100 m
- **Small:** <20 HDV (>3.5t) outward movements in any one day, surface material with low potential for dust release, unpaved road length <50 m.

#### Step 2b – Define the Sensitivity of the Area

Step 2b of the assessment process requires the sensitivity of the area to be defined. The sensitivity of the area takes into account:

- the specific sensitivities of receptors in the area
- the proximity and number of those receptors
- in the case of PM10, the local background concentration
- site-specific factors, such as whether there are natural shelters, such as trees, to reduce the risk of wind-blown dust.

The type of receptors at different distances from the site boundary or, if known, from the dust generating activities, should be included. Consideration also should be given to the number of 'human receptors'. Exact counting of the number of 'human receptors', is not required. Instead, it is recommended that judgement is used to determine the approximate number of receptors (a residential unit is one receptor) within each distance band. For receptors which are not dwellings professional judgement should be used to determine the number of human receptors for use in the tables, for example a school is likely to be treated as being in the >100 receptor category.

The likely routes the construction traffic will use should also be included to enable the presence of trackout receptors to be included in the assessment. As general guidance, without site-specific mitigation, trackout may occur along the public highway up to 500 m from large sites (as defined in STEP 2A), 200 m from medium sites and 50 m from small sites, as measured from the site exit.

A number of attempts have been made to categorise receptors into high, medium and low sensitivity categories; however, there is no unified sensitivity classification scheme that covers the quite different potential effects on property, human health and ecological receptors.

**Table B1** provides guidance on the sensitivity of different types of receptors to dust soiling, health effects, and ecological effects.

Value	High Sensitivity Receptor	Medium Sensitivity Receptor	Low Sensitivity Receptor
Dust Soiling	Users can reasonably expect enjoyment of a high level of amenity; or The appearance, aesthetics or value of their property would be diminished by soiling; and The people or property would reasonably be expected to be present continuously, or at least regularly for extended periods, as part of the normal pattern of use of the land.	Users would expect a to enjoy a reasonable level of amenity, but would not reasonably expect to enjoy the same level of amenity as in their home; or The appearance, aesthetics or value of their property could be diminished by soiling; or The people or property wouldn't reasonably be expected a to be present here continuously or regularly for extended periods as part of the normal pattern of use of the land.	The enjoyment of amenity would not reasonably be expected; or Property would not reasonably be expected to be diminished in appearance, aesthetics, or value by soiling; or There is transient exposure, where the people or property would reasonably be expected a to be present only for limited periods of time as part of the normal pattern of use of the land.
	Indicative examples include dwellings, museums, and other culturally important collections, medium- and long-term car parks and car showrooms.	Indicative examples include parks and places of work.	Indicative examples include playing fields, farmland (unless commercially sensitive horticultural), footpaths, short term car parks and roads.
Health Effects	Locations where members of the public are exposed over a time period relevant to the air quality objective for PM <sub>10</sub> (in the case of the 24-hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day).	Locations where the people exposed are workers, and exposure is over a time period relevant to the air quality objective for PM <sub>10</sub> (in the case of the 24-hour objectives, a relevant location would be one where individuals may be exposed for eight hours or more in a day).	Locations where human exposure is transient
	Indicative examples include residential properties. Hospitals, schools, and residential care homes should also be considered as having equal sensitivity to residential areas for the purposes of this assessment.	Indicative examples include office and shop workers but will generally not include workers occupationally exposed to PM <sub>10</sub> , as protection is covered by Health and Safety at Work legislation.	Indicative examples include public footpaths, playing fields, parks, and shopping streets.

Table B1	IAQM Guidance for	or Categorising	Receptor	Sensitivity

According to the IAQM methods, the sensitivity of the identified individual receptors (as described above) is then used to assess the *sensitivity of the area* surrounding the active construction area, taking into account the proximity and number of those receptors, and the

local background  $PM_{10}$  concentration (in the case of potential health impacts) and other sitespecific factors. Additional factors to consider when determining the sensitivity of the area include:

- any history of dust generating activities in the area
- the likelihood of concurrent dust generating activity on nearby sites
- any pre-existing screening between the source and the receptors
- any conclusions drawn from analysing local meteorological data which accurately represent the area; and if relevant.
- the season during which the works will take place.
- any conclusions drawn from local topography.
- duration of the potential impact, as a receptor may become more sensitive over time.
- any known specific receptor sensitivities which go beyond the classifications given in this document.

The IAQM guidance for assessing the sensitivity of an area to dust soiling is shown in **Table B2**. The sensitivity of the area should be derived for each of activity relevant to the project (ie construction and earthworks).

#### Table B2 IAQM Guidance for Categorising the Sensitivity of an Area to Dust Soiling Effects

Receptor	Number of	Distance from the source (m)				
Sensitivity	receptors	<20	<50	<100	<350	
High	>100	High	High	Medium	Low	
	10-100	High	Medium	Low	Low	
	1-10	Medium	Low	Low	Low	
Medium	>1	Medium	Low	Low	Low	
Low	>1	Low	Low	Low	Low	

Note: Estimate the total number of receptors within the stated distance. Only the *highest level* of area sensitivity from the table needs to be considered. For example, if there are 7 high sensitivity receptors < 20m of the source and 95 high sensitivity receptors between 20 and 50 m, then the total of number of receptors < 50 m is 102. The sensitivity of the area in this case would be high.

A modified version of the IAQM guidance for assessing the *sensitivity of an area* to health impacts is shown in **Table B3**. For high sensitivity receptors, the IAQM methods takes the existing background concentrations of PM<sub>10</sub> (as an annual average) experienced in the area of interest into account and is based on the air quality objectives for PM<sub>10</sub> in the UK. As these objectives differ from the ambient air quality criteria adopted for use in this assessment the IAQM method has been modified slightly.

	Annual	Number of	Distance from the source (m)				
Receptor sensitivity	mean PM <sub>10</sub> conc.	receptors <sub>a,b</sub>	<20	<50	<100	<200	<350
		>100	High	High	High	Medium	Low
	>25 µg/m³	10-100	High	High	Medium	Low	Low
		1-10	High	Medium	Low	Low	Low
		>100	High	High	Medium	Low	Low
	21-25 ug/m <sup>3</sup>	10-100	High	Medium	Low	Low	Low
Llinh	р <i>9</i> ,	1-10	High	Medium	Low	Low	Low
High		>100	High	Medium	Low	Low	Low
	17-21 µg/m³	10-100	High	Medium	Low	Low	Low
		1-10	Medium	Low	Low	Low	Low
	<17 µg/m³	>100	Medium	Low	Low	Low	Low
		10-100	Low	Low	Low	Low	Low
		1-10	Low	Low	Low	Low	Low
	>25 µg/m³	>10	High	Medium	Low	Low	Low
		1-10	Medium	Low	Low	Low	Low
	21-25	>10	Medium	Low	Low	Low	Low
Ma dia an	µg/m³	1-10	Low	Low	Low	Low	Low
Medium	17-21	>10	Low	Low	Low	Low	Low
	µg/m³	1-10	Low	Low	Low	Low	Low
	47 ug/m <sup>3</sup>	>10	Low	Low	Low	Low	Low
	<17 µg/m²	1-10	Low	Low	Low	Low	Low
Low	-	>1	Low	Low	Low	Low	Low

## Table B3 IAQM Guidance for Categorising the Sensitivity of an Area to Dust Health Effects

Notes:

(a) Estimate the total within the stated distance (e.g. the total within 350 m and not the number between 200 and 350 m); noting that only the highest level of area sensitivity from the table needs to be considered.

(b) In the case of high sensitivity receptors with high occupancy (such as schools or hospitals) approximate the number of people likely to be present. In the case of residential dwellings, just include the number of properties.

#### Step 2c – Define the Risk of Impacts

The dust emission magnitude from Step 2a and the receptor sensitivity from Step 2b are then used in the matrices shown in **Table B4** (Demolition), **Table B5** (earthworks and construction) and **Table B6** (track-out) to determine the risk category with no mitigation applied.

Soncitivity of Aroo	Dust Emission Magnitude			
Sensitivity of Area	Large	Medium	Small	
High	High Risk	Medium Risk	Medium Risk	
Medium	High Risk	Medium Risk	Low Risk	
Low	Medium Risk	Low Risk	Negligible	

#### Table B-4 Risk Category from Demolition Activities

#### Table B-5 Risk Category from Earthworks and Construction Activities

Soncitivity of Aroo	Dust Emission Magnitude			
Sensitivity of Area	Large	Medium	Small	
High	High Risk	Medium Risk	Low Risk	
Medium	Medium Risk	Medium Risk	Low Risk	
Low	Low Risk	Low Risk	Negligible	

#### Table B-6 Risk Category from Track-out Activities

Sonaitivity of Aroa	Dust Emission Magnitude				
Sensitivity of Area	Large	Medium	Small		
High	High Risk	Medium Risk	Low Risk		
Medium	Medium Risk	Low Risk	Negligible		
Low	Low Risk	Low Risk	Negligible		



# Appendix C

# Odour Risk Assessment Methodology

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

**Construction Air Quality Management Plan** 

LOG-E c/- AT&L

SLR Project No.: 610.31166.00000

20 January 2025



#### Nature of Impact

Predicted impacts may be described in terms of the overall effect upon the environment:

- **Beneficial:** the predicted impact will cause a beneficial effect on the receiving environment.
- **Neutral:** the predicted impact will cause neither a beneficial nor adverse effect.
- **Adverse:** the predicted impact will cause an adverse effect on the receiving environment.

#### **Receptor Sensitivity**

Sensitivity may vary with the anticipated impact or effect. A receptor may be determined to have varying sensitivity to different environmental changes, for example, a high sensitivity to changes in air quality, but low sensitivity to noise impacts. Sensitivity may also be derived from statutory designation which is designed to protect the receptor from such impacts.

Sensitivity terminology may vary depending upon the environmental effect, but generally this may be described in accordance with the following broad categories - Very high, High, Medium and Low.

**Table C1** outlines the methodology used in this study to define the sensitivity of receptors to air quality impacts.

Sensitivity	Criteria
High	Surrounding land where: • users can reasonably expect enjoyment of a high level of amenity; and • people would reasonably be expected to be present here continuously, or at least regularly for extended periods, as part of the normal pattern of use of the land. Examples may include residential dwellings, hospitals, schools/education and tourist/cultural.
Medium	Surrounding land where: • users would expect to enjoy a reasonable level of amenity, but wouldn't reasonably expect to enjoy the same level of amenity as in their home; or • people wouldn't reasonably be expected to be present here continuously or regularly for extended periods as part of the normal pattern of use of the land. Examples may include places of work, commercial/retail premises and playing/recreation fields.
Low	<ul> <li>Surrounding land where:</li> <li>the enjoyment of amenity would not reasonably be expected; or</li> <li>there is transient exposure, where the people would reasonably be expected to be present only for limited periods of time as part of the normal pattern of use of the land.</li> <li>Examples may include industrial use, farms, footpaths and roads.</li> </ul>

Table C1 Receptor Sensitivity to Odours

#### Magnitude

Magnitude describes the anticipated scale of the anticipated environmental change in terms of how that impact may cause a change to baseline conditions. Magnitude may be described quantitatively or qualitatively. Where an impact is defined by qualitative assessment, suitable justification is provided in the text.

Magnitude	Description
Very Large	Impact is predicted to cause significant consequences on the receiving environment (may be adverse or beneficial)
Large	Impact is predicted to possibly cause statutory objectives/standards to be exceeded (may be adverse)
Medium	Predicted impact may be tolerated for most of the days, but maybe intolerable for some days.
Small	Predicted impact may be tolerated.
Negligible	Impact is predicted to cause no significant consequences.

#### Table C2 Magnitude of Impacts

#### Significance

The risk-based matrix provided below illustrates how the definition of the sensitivity and magnitude interact to produce impact significance.

 Table C3
 Impact Significance Matrix

Potential Odour	Receptor Sensitivity				
Exposure Impact	Low	Medium	High		
Very Large	Moderate adverse	Substantial adverse	Substantial adverse		
Large	Slight adverse	Moderate adverse	Substantial adverse		
Medium	Negligible	Slight adverse	Moderate adverse		
Small	Negligible	Negligible	Slight adverse		
Negligible	Negligible	Negligible	Negligible		

Where the overall effect is greater than "slight adverse", the effect is likely to be considered significant. Note that this is a binary judgement: either it is "significant", or it is "not significant". Concluding that an effect is significant should not mean, of itself, that a development proposal is unacceptable, and the planning application should be refused; rather, it should mean that careful consideration needs to be given to the consequences, scope for securing further mitigation, and the balance with any wider environmental, social and economic benefits that the proposal would bring.



# Appendix D Air Quality Notification Form

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

**Construction Air Quality Management Plan** 

LOG-E c/- AT&L

SLR Project No.: 610.31166.00000

20 January 2025

### Upgrade and widening of Aldington & Abbotts Roads and Mamre & Abbotts Roads

Air Quality Notification Form

This form to be completed by the Contractor PM, PE or Environmental Representative Please attach site observation photographs as required

LOG-E c/- AT&L Contract Superintendent to Complete						



# Appendix E Curriculum Vitae of Author

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

**Construction Air Quality Management Plan** 

LOG-E c/- AT&L

SLR Project No.: 610.31166.00000

20 January 2025

Sahar Bagheri, MSc. BS Assesse Consultant | Air Ovality | Asia Pacific





Sahar is an associate Consultant working within the Air Quality team. She has over five years of environmental engineering experience.

Sahar has acquired broad environmental experience including air quality and odour, impact assessments, emission inventories (including National Pollutant Inventory and National Greenhouse and Energy Reporting), air quality dispersion modeling (including GRAL, CALPUFF and AERMOD), air quality and odour monitoring, meteorological

monitoring, meteorological modelling (TAPM & CALMET), greenhouse gas assessments, and greenhouse gas management plans.

#### Education

- Master's in Mechanical Engineering. Sharf University of Technology, Iran (2016).
- Bachelor of Science (Mechanical Engineering). Sharif University of Technology. Iran (2014)

#### Project Experience

#### North Richmond Residential Development (2021)

Lead air quality consultant to conduct an OIA for the proposed North Richmond Residential Development and assess odour impacts from neighbouring sources and identify any opportunities for a staged development.

#### South Creek West Rezoning (2022)

Project manager to provide a detailed quantitative assessment of the potential air quality impacts of the Bringelly Briokworks operations on the Northwest Precinct within the South Creek West Land Release Area. The assessment has been modelled using a combination of the TAPM, CALMET and CALPUFF models.

#### Momentum M7 Development (2022)

The project involved details of all emissions from all construction activities due to the development of Momentum M2. It also included a program capable of evaluating the performance of the construction and determining compliance with key performance indicators, identification of control measures that may be suitable for emission sources, air quality management commitments and responsibilities, and potential contingency measures in the event of an air quality oritorian exceedance.

#### Aspect Industrial Estate (2021-2022)

Air quality specialist engaged by Mirvas to prepare a Construction Air Quality Management Plan (CAQMP) for the Aspect Industrial Estate (A/E) to maintain acceptable levels of amenity for surrounding residents during construction activities and ensure compliance with relevant ambient air quality oriteria for particulate matter at surrounding receptor locations.

#### Moss Vale Sewage Treatment Plant Upgrade (2022)

Lead air quality consultant to undertake a detailed odour impact assessment for the proposed upgrade of the Moss Vale STP using the CALMET/CALPUFF modeling software.

#### Anzac Parade Air Quality Assessment (2021)

Air quality specialist to model the emissions from the closest main road using the GRAMM/GRAL modeling system and predict the incremental impact of these emissions across the proposed development of a mixed-use building.

#### Memberships and Associations

- Clean Air Society of Australia and New Zealand (CASANZ)
- Emerging Air Quality Professionals (EAQP)



# Appendix F Community Consultation Summary

# Mamre Abbotts Intersection Upgrade (MAIU) and Aldington and Abbott's Road Upgrade (AARU)

**Construction Air Quality Management Plan** 

LOG-E c/- AT&L

SLR Project No.: 610.31166.00000

20 January 2025



#### ABBOTTS ROAD / ALDINGTON ROAD MAMRE ROAD / ABBOTTS ROAD INTERSECTION Community Consultation and Complaints Handling Strategy

#### 1. Introduction

#### 1.1 Background

Stockland Fife Kemps Creek Pty Limited (SFKC) is seeking to upgrade Abbotts Road and Aldington Road, including the Mamre Road / Abbotts Road intersection, under a joint delivery with ESR and Frasers. A modification application has been prepared and is currently under assessment to pull the environmental impacts of the proposed road works into SFKC's existing consent, SSD-10479, for 200 Aldington Rd, Kemps Creek. The determination of the modification will enable issue of relevant road approvals: Works Authorisation Deed (WAD) (TfNSW) or Section 138 (Penrith City Council), which will allow SFKC and its proposed contractor to deliver the works on behalf of government to support the new warehouses in the Mamre Road Precinct.

As part of the modification's assessment, Department of Planning, Housing and Infrastructure (DPHI) requested SFKC to undertake community consultation to advise immediate landowners of the environmental impact associated with the proposed road works. SFKC with ESR undertook door knocking to affected residents on 16 May 2024. Outcomes of this engagement is contained at Section 2.2 of the draft *Community Consultation and Complaints Handling Strategy*.

SFKC recognises the engagement will be an ongoing process with residents as road works commence. Therefore, this draft *Community Consultation and Complaints Handling Strategy* has been prepared to support the project during its duration.

#### 1.2 Purpose

This draft *Community Consultation and Complaints Handling Strategy* (Engagement Strategy) outlines the following:

- Identification of consultation triggers and methods with adjacent landowners and residents, key stakeholders, relevant agencies and the wider community
- The tools and actions to be undertaken throughout the construction program for the road works to disseminate information through notification of relevant stakeholders
- Enquiry and compliant management protocol; and
- Monitoring and feedback mechanism.

The Engagement Strategy is anticipated to be a dynamic document. To be updated for variations in the construction program, methodology and feedback from residents.





#### **1.3** Community Communications and Complaints Handling Strategy Scope

The Engagement Strategy applies to Mamre Road/ Abbotts Road intersection works and Abbotts Road/Aldington Road works associated with the Proponent and their engagement contractors. This document outlines the method, triggers, and timing of consultation, notification and complaints and queries handling required in the course of construction of the road works.

#### 1.4 Project Description

Proposed Mamre Road and Abbotts Road Intersection works are described as follows:

- a. Installation of traffic signals (TCS5186) and associated road work construction to TfNSW requirements at the intersection of Mamre Rd and Abbotts Rd, Kemps Creek:
  - i. Demolition;
  - ii. Earthworks;
  - iii. Drainage;
  - iv. Utilities;
  - v. Pavement;
  - vi. Signage and Line marking;
  - vii. Concrete works (kerb, medians, and footpaths);
  - viii. Landscaping;

i.

- ix. Traffic Control Signals.
- b. Installation of traffic signals and associated concrete works, signage and line marking as per the TfNSW requirements at the following intersections:
  - Interim Intersection 1 (TCS5180) Abbotts Rd and Aldington Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
  - ii. Intersection 2 (TCS5242) Aldington Road and DCP Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
- iii. Intersection 3 (TCS5181) Aldington Road and DCP Road Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.
- iv. Interim Intersection 4 (TCS5182) Aldington Road and DCP Road, Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
  - Traffic Control Signals.

The proposed Abbotts and Aldington Roads seeks to construct new 4 lane distrubutor road:



- a. Demolition;
- b. Earthworks;
- c. Drainage;
- d. Utilities;
- e. Pavement;
- f. Signage and Line marking;
- g. Concrete works (kerb, medians, and footpaths); and
- h. Landscaping.





#### Figure 1 Scope of Project Works



Source: Ethos Urban



#### 2. Key Stakeholders and Potential Issues

#### 2.1 Key Stakeholders

The key stakeholders likely to require consultation, notification and or likely to raise comment or complaint in the course of the road works include (but are not limited to):

- Adjacent property owners or occupiers
- Landowners in the Mamre Road Precinct, not directly adjacent to the proposed road works
- Landowners outside of the Mamre Road Precinct, such as Mount Vernon residents
- Local Council (Penrith City Council)
- Transport for NSW
- NSW Police
- Department of Planning, Housing and Infrastructure
- Utility and Services Providers, including:
  - o TransGrid
  - o Endeavour Energy
  - Sydney Water
- Other Interested Parties

#### 2.2 Previous Consultation

The proposed road works have been documented in SFKC's development application since 2021. The proponent and their representatives have undertaken consultation as part of this DA, as well as developing the for-construction design under the WAD and Section 138 process.

In addition, SFKC and ESR recently door knocked residents as part of this modification to support the proposed road works modification on 16 May 2024. Outcomes of this consultation is outlined in **Table 1** below.

Address	Lot/DP	Road Works Impact	Consultation Outcome
54-72 Aldington Road Kemps Creek	43/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:12AM</li> <li>Vacant residential property</li> <li>Currently operating as a basil farm</li> <li>Discussed with worker the proposed road works and left contact information for further questions</li> </ul>
53 Aldington Road Kemps Creek	38/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:16AM</li> <li>No one at the property</li> <li>Identified to reattend site in the next two weeks</li> </ul>

#### Table 1 16 May 2024 Consultation Outcomes

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





269 Aldington Road	8/DP253503	•	Directly adjacent to	•	Attended site at 10:10AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Understood land is currently under
		•	In proximity to		transaction to a developer
			Mamre Road/	•	ESR and SFKC to contact developer to
			Abbotts Road		discuss proposed road works
			intersection works		
284-288 Aldington	141/DP1033686	•	Directly adjacent to	•	Attended site at 9:26AM – 9:37AM
Road Kemps Creek			proposed Aldington	•	Met with the landowner
			Road works	•	Discussed the road upgrade including
		•	In proximity to		environmental impacts e.g. noise, dust,
			Mamre Road/		etc
			Abbotts Road	•	No major issues raised
			intersection works	•	Further discussions on driveway tie-in
					under the proposed road works.
				•	Ongoing consultation identified
282 Aldington Road	142/DP1033686	•	Directly adjacent to	•	Attended site at 9:21AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Met with relative at Lot 141, refer to
		•	In proximity to		conversation
			Mamre Road/	•	Ongoing consultation identified
			Abbotts Road		
			intersection works		
287 Aldington Road	11/DP296455	•	Directly adjacent to	•	Attended site at 10:11AM – 10:30AM
Kemps Creek			proposed Abbotts	•	Met with the landowner
			and Aldington Road	•	No issues with noise
			works	•	Concern regarding retain fence on
		•	Directly adjacent to		property boundary
			proposed Mamre	•	ESR advised proposed upgrade will not
			ROAD/ ADDOTTS ROAD		touch his fence
			Intersection works	•	Ongoing consultation identified
				•	ESR to organise meeting with road
					contractor closer to date of
					construction commencement to discuss
1016 1020 14	2 (55250002		<b>-</b>		protecting his fence
TOTP-TOTS Mamle	2/08250002	•	Directly adjacent to	•	Attended site 10:34AM
коай кеттря стеек			proposed ADDOTTS	•	No one at the property
			and Aldington Road	•	identified to reattend site in the next
			WUIKS		two weeks
		•	Directly adjacent to		
			Proposed Marine		
			nudu/ AUDULLS KOBO		
			Intersection works		





272 Aldington Road Kemps Creek	15/DP253503	•	Directly adjacent to proposed Aldington Road works	• • • • •	Attended site from 9:44AM-10:09AM Met with the landowner Landowner requested to send plan for road upgrade FKC to attend her site on Monday, 20 May 2024 to discuss proposed plans Wanting to coordinate driveway access Landowner concerned regarding traffic controllers and ongoing upgrades of traffic arrangements entering and exiting Abbotts Road Advised a website would be set up with a mailing list subscription Landowner concerned regarding length of time to upgrade road Requested ESR and SFKC to shut down road to accelerate road upgrade. ESR and SFKC advise this was not possible due to prohibition of using Bakers Lane for construction and
1005-1023 Mamre Road Kemps Creek	40/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	operational trattic.Attended site from 10:56AM – 11:30AMMet with the landownerConcern regarding construction trafficmanagement and stormwaterDiscuss the need to reduce the speedlimit, which ESR and SFKC advisedwould occur under the WADDiscussed the need to relocate thepower polesDiscussed the compulsory acquisition ofSydney Water and the proposedregional stormwater schemeESR and SFKC advised we could workwith the landowner on impactsassociated with the road worksDiscuss road tie into the proposed roadupgradeESR and SFKC agreed to share IPARTsubmission once completed in relationto the regional stormwater mattersESR issued plan of road works on 17May for information

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





				•	Outcomes of discussion were to have a follow up meeting with all landowners on western half of Mamre Road. Tentatively scheduled for the 27 May 2024
20 Aldington Road Kemps Creek	44/DP708347	•	Directly adjacent to proposed Aldington Road works	•••	Attended site at 9:08AM No one answered Identified to reattend site in the next two weeks
983 Mamre Road Kemps Creek	39/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Landowner attended meeting with ESR, SFKC and landowner at Lot 40, DP 258414 Refer to above consultation outcomes for further information
967-981 Mamre Road Kemps Creek	38/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•••	Unable to attend site Landowner to join drop in with residents on 27 May 2024
1066-1078 Mamre Road Kemps Creek	5/DP250002	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	Attended site at 10:45AM ESR called resident and left message on 16 May 2024 No one at property ESR discussed proposed works on 17 May 2024 via phone No major issues Site is currently under due diligence by a developer
930-966 Mamre Road Kemps Creek	51/DP259135	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended site at 10:48AM Talked to resident via intercom Did not want to discuss the proposed road works Left contact card should they have any questions

#### 2.3 Potential Issues and Strategies

SFKC is committed to ongoing, proactive consultation with the community and stakeholders while understanding the importance of addressing potential issues and minimising construction related impacts. **Table 2** outlines potential project issues that are likely or known to be of interest or concern to the community and stakeholders. The able also details the communications related measures and strategies that SFKC and its delivery partners will undertake to manage and mitigate impacts.





Where an incident or non-compliance arises relating to environmental management and beyond the scope of matters relating to consultation, the management and mitigation measures will be handled as part of the approval under the WAD and Section 138. It is noted a Construction Environmental Management Plan is a required document to be approved by the relevant roads authority under the relevant road approval process.

Potential Issue	Potential Key Impact	Mitigation Strategy
Noise and Vibration	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with noise and vibration.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of noise and vibration associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement to occur during the commencement and delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drop advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> <li>Up to date information on current works will be accessible to all stakeholders via the project webpage.</li> <li>Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification</li> </ul>

#### Table 2 Issue Identification and Mitigation





		<ul> <li>via the project webpage, mailing list and letter box drop will be undertaken.</li> <li>The CEMP, along with the supporting Construction Noise and Vibration Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.</li> </ul>
Air Quality	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with air quality.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of air quality associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drops advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> </ul>




		T	
		•	works will be accessible to all stakeholders via the project webpage. Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification via the project webpage, mailing list and letter box drop will be undertaken. The CEMP, along with the supporting Construction Air Quality Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.
Traffic	the movement of construction machinery to and from site, the closure of parts of road to support delivery of road works, change of traffic through movement within the road corridor	•	landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Notification to be circulated 4 weeks prior to any traffic changes to registered parties via the mailing list and letter box drop. VMS boards adjacent to the proposed road works to identify changes to road conditions prior to them occurring. The CEMP and Construction Traffic Management Plan identify specific
			mechanisms to manage and mitigate these impacts including Driver Code of
			Conduct, intersection arrangements such as left in, left out only.
Stormwater,	High rainfall events could result in localised	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be
Stormwater, Sediment Control.	High rainfall events could result in localised flooding.	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water





		•	The CEMP, along with the supporting Erosion and Sediment Control Plan identify specific mechanisms to manage and mitigate these impacts in accordance with the relevant Penrith City Council standards and commitments within the SSDA.
Waste Management	Earthworks and construction waste present at the site during works.	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Removal of Flora and Fauna	The removal of native and exotic flora and fauna to facilitate road works, with associated potential for impacts on safety of immediately adjacent receivers, along with biodiversity and visual amenity	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Visual Amenity and Privacy	Visual impacts of earthworks and construction activities, along with potential impacts of privacy of adjacent sensitive receivers.	•	Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Should issues arise, ESR and SFKC will work with the landowner to identify appropriate mitigation methods to assist with privacy during the road works.
Out of Hours Works	The identified impacts could be magnified due to the works being carried out while surrounding receivers are more likely to be home in the early morning/ evening, or asleep, with corresponding lower background noise levels.	•	Direct engagement with landowners directly adjacent to the road corridor to occur 4 weeks prior to nighttime noise works. Letter box drop to be undertaken for receivers within Mamre Road Precinct and the broader area. Website and VMS boards to be updated advising of the night time works. Concerns and appropriate mitigation to be adopted utilising the relevant management plan/ mitigation solution, such as acoustic.





		•	ESR and SFKC to prepare a report to DPHI advising of concern raised by landowner and mitigation adopted to minimise impact to receiver.
Aboriginal Heritage	There is a potential for encountering items of Aboriginal Heritage during excavation.	•	Monitoring of works by appropriately qualified personnel, along with the implementation of an unexpected finds protocol in consultation with Aboriginal Stakeholders and Heritage Division of the Department of Planning, Industry and Environment The CEMP identifies specific mechanisms to manage and mitigate these impacts
Misinformation and Misunderstanding	Lack of project awareness within the wider community may result in complaints being raised by those unaware of the extent of the approval, with these complaints not directed through the appropriate project hotline. Unauthorised release of project information by the project team to the media, stakeholders or the community has potential to impact on project perception in the community.	•	The engagement strategy commits to provide regular updates in plain language, supported by imagery to stakeholders and the wider community through public and private media. Contact details will be provided on the webpage, on site and all information issued. Information on project works, reporting and compliance is to be maintained and updated on the project website.
Emergency Event	Unforeseen emergency with the potential impact on the community either directly, or indirectly through out of hours activities that may generate additional traffic or noise.	•	Communication updates will be issued to all stakeholders during emergency events, with the CEMP identifying specific mechanisms to manage and mitigate these impacts from an environmental management perspective.



#### 3. Communications and Community Liaison Representative

SFKC will nominate a Communications and Community Liaison Representative (the representative) who will provide the community and stakeholders with a single point of contact for all aspects of the project, responsible for receiving and disseminating information requests and complaints, along with addressing any interface issues.

The representative will be available for contact by the local residents and the community at all reasonable times to answer any questions and address any concerns relating to the project. The representative will have up-to-date information on:

- Emerging stakeholders
- Planned construction activities
- Planned traffic arrangements
- Current landowner discussions with members of staff
- Planned community and stakeholder consultation
- Complaints and enquiries received
- Duties and accountabilities of staff; and
- Commitments to stakeholders made by SFKC and the broader delivery group.

The engagement representative will be responsible for recording, actioning and provided response to comments, queries or complaints received with relation to the construction of the project and will maintain the Complaints Register.

Engagement Representative Alasdair Cameron Project Manager – Infrastructure <u>Alasdair.Cameron@esr.com</u> 0402 458 226

The representative will be supported by AT&L, which are nominated as the project manager and superintendent. Additional contacts available to be reached at are as follows:

Project Manager Alex Lohrisch AT&L <u>Alex.L@atl.net.au</u> 0415 398 014

Superintendent Gabriel Vermeesch AT&L Gabriel.V@atl.net.au





0447 285 607

Any queries and complaints directed to AT&L will be immediately passed to the Engagement Representative on behalf SFKC, ESR and Frasers for action and response.





#### 4. Community and Stakeholder Engagement

#### 4.1 Objectives

The key objectives of the strategy are to:

- Keep the local community and key stakeholder informed of the progress of the road works
- Ensure that enquiries and complaints received from the community or key stakeholders are addressed and responded to in a timely and effective manner
- Inform relevant parties in advance of potential disturbances and events likely to cause impact
- Be good neighbours and members of the local community throughout the duration of the project
- Providing an open two communication channel to allow ongoing, iterative engagement; and
- Seek opportunities for improvement throughout the project.

#### 4.2 Conduct

In their communications and consultation with the community and key stakeholders, SFKC and their representatives will comply at all times with the requirements of the *Privacy and Personal Information Protection Act 1998 (NSW)* and the *Privacy Act 1988 (Cth)*.

#### 4.3 Communication, Management and Mitigation Tools

A range of tools and techniques will be used to inform and engage with the community and stakeholders regarding the project. **Table 3** below provides an overview of the mechanisms to be utilised to notify and consult with local community and key stakeholders and measures to mitigate potential issues throughout the development.





#### Table 3 Communication Management and Mitigation Tools

Tool/ Technique	Description	Person Responsible	Audience	Frequency/timing	Specifications
Consultation Meetings	Meetings held to	Engagement	The wider community	Quarterly Town Halls to	Details and matters to
	notify, discuss or	Representative with	and key stakeholders	be established to	be discussed to be
	consult on matters	assistance from PM		update the public on	tailored to the purpose
	arising of relevance of			the progress of the	and aims of the
	community and/or key			road works. One to	meeting.
	stakeholders.			occur prior to	
				commencement. Town	Record of conversation
	Meetings to be held			Halls to exist during the	(informal) or minutes
	either face to face or			construction	(formal) to be
	on virtual platform(s).				recorded, retained by
				Additional meetings to	SFKC and provided to
				be held on an as needs	all attendees following
				basis dependent on	the meetings. A record
				matters to be discussed	of the discussions shall
				and appropriate timing	be included in the
				of discussions.	Complaints Register
					and actioned as
					required.
Complaints Register	Recording community	Engagement	The wider community	Project duration	The maintenance of
	and stakeholder	Representative with	and key stakeholders		the Complaints
	interactions (including	assistance from PM			Register will be
	notifications,				continually updated to
	consultation, queries,				record community
			- 80		

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	comments and complaints), along with associated remedial actions as required				engagement including information provided by SFKC, feedback received and remedial action undertaken where required.
Agency Meetings	Meetings with agencies to discuss matters relevant to their agency	Engagement Representative	Relevant Agency	As required	Meetings will be held as required to address matters relevant to specific agencies. These shall be undertaken directly by SFKC.
Notification Letterbox Drop	Letters would be provided to specific receivers identified as being potentially affected by construction. This may be undertaken in tandem with doorknocking.	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	Letterbox drop details to be recorded in the Complaints Register. Letterbox drops to occur at big project milestones, such as completion of stages, prior to Town Hall events, or any changes to traffic management which would affect the broader community.

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Email and phone	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder and	Representative with	and key stakeholders	project duration	consent, contact details
	contact details	assistance from the			shall be utilised to
	provided, contact is	PM.			provide notification or
	made via email, phone				further contact to
	and/or text message to				respond to query or
	notify or respond to				complaint.
	query or complaint.				
					Recorded contact
					details are to be kept
					private and used
					exclusively for the
					purpose of
					consultation on the
					project.
Email Mailing List	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder, an	Representative with	and key stakeholders	project duration	consent, contact details
	email mailing list to be	assistance from the			shall be utilised to
	set up to notify	PM.			provide notification or
	interested parties in				further contact to
	updates on the project.				respond to query or
					complaint.
					Recorded contact
					details are to be kept

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					private and used exclusively for the purpose of consultation on the project.
On Site Signage	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Contain key project contact details including the hotline and webpage, along with relevant project and safety information.
VMS Boards	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Inform updates on changes to traffic conditions during the road upgrade works.
Project Information and Complaints Number	Phone number to be contacted should information on the project be required or complaint lodged.	Engagement Representative with assistance from the PM	The wider community and key stakeholders	Project duration	Phone number to be included on site signage, the webpage and all project information material. Feedback provided to be incorporated into the Complaints

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					Register and actioned as required.
Staff and Visitor Induction and Training	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Key project safety information, contact details, emergency procedures and site information.
Toolbox and Prestart Meetings	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Task specific safety information, emergency procedures, and relevant project updates. All staff and subcontractors to be made aware of external and internal communication procedures.
Website	A webpage to be established for the road works	SFKC and its delivery partners	The wider community and key stakeholders	Project duration	Website address and phone number located on site signage and all project information. Webpage to detail road works, updates on traffic conditions. To be

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			utilised as a way to
			keep live updates
			available to interested
			parties.

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#### 4.4 Notification Procedure

Where notification is required, notification shall be undertaken within the timeframes outlined in the engagement strategy associated with key milestone dates on road delivery or changes to traffic conditions. Where notification is required due to a potential impact or issue, notification shall be undertaken in accordance with **Table 4** below.

#### Table 4 Notification of Potential Impact or Issue

Potential Impact or Issue	Method of Contact/Consultation	Timeframe
High noise generating work	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Vibration intensive activity	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Traffic management disruption	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours.	



	VMS boards to be updated notifying changes to traffic patterns	Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Respite offerings	Email or phone calls will be undertaken to determine whether respite is required and appropriate for scheduling and duration for respite periods	Discussion with immediate landowners no less than 7 days prior to the activity
Night Works	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	Notification of immediate landowners no less than 7 days prior to the activity Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Emergency Event	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	As soon as possible





#### 4.5 Complaints Procedure

SFKC is committed to timely and effective management of enquiries and complaints relating to construction activities for the project. To this end, the following complaints procedure will be adhered to, enabling the receipt of recording the enquiries and complaints, along with the methods of response and resolution of issues raised.

4.5.1 Receiving and Recording Enquiries and Complaints

SFKC will establish a project email address and nominate a phone number for the receipt of enquiries and complaints relating to the development. The email account will be regularly updated monitored to receive and respond to customer feedback and enquiries. The phone number will be available for contact from the commencement of works. The project manager will manage the phoneline from the commencement of the project until the completion of works. Where call are received during hours of construction work (including out of hours works) all calls will be answered by the project manager. Where calls are received outside of hours of construction works the caller will be invited to leave a message. All approached from the community stakeholder will be registered in the project's Complaints Register.

SFKC will establish a Complaints Register to record all complaints and enquiries received. The Complaints Register will be maintained on a regular basis. The Complaints Register shall include the following details for all complaints and enquiries received:

- Date and time of complaint or enquiry
- Method by which the complaint or enquiry was made
- Name, address, contact telephone number of complainant (if no such details were provided, a note to that effect)
- Nature of complaint or enquiry
- Action taken in response including follow up contact with the complainant
- Any monitoring to confirm that the complainant or enquiry has been satisfactorily resolved; and
- If no action is taken, the reasons why no action was taken by you.
- 4.5.2 Responding to and Resolving Enquiries and Complaints

Where a complaint or enquiry is received, the engagement representative or project manager will attempt to provide an immediate response if possible via phone or email. Where a complaint or enquiry cannot be responded immediately, an assessment and prioritisation of resolving the enquiry will be undertaken with an aim to provide a





response within two hours during construction works and 24 hours at other times. Where a complaint or enquiry cannot be resolved by the initial or follow-up response, a written response will be provided to the complainant within 10 days.

In the event of a complaint, the engagement representative will assess whether the complaint is founded or unfounded. If necessary, the engagement representative will delegate resolution of the issue to the project manager or superintendent for action with the contractor. The engagement representative will oversee the rectification of the issue and respond to the complainant once the issue has been resolved.

In the event of an enquiry, the engagement representative or project manager will endeavour to provide an immediate response where they are in possession of the relevant information. Where more specific or detailed information is required, the engagement representative will liaise with the project manager, superintendent and/or contractor to obtain the information required to respond to the enquiry and provide the information to the enquiring party once in hand.

Where the above protocol in unsuccessful in resolving complaints, mediation may be undertaken at the discretion of SFKC to facilitate negotiations between affected parties. This shall be performed with the assistance of the project manager and potentially via an independent person (mediator) appointed by SFKC as required.

4.5.3 Unreasonable Complainant Conduct

The NSW Ombudsman provides guidelines which define unreasonable complainant conduct as:

"...any behaviour by a current or former complainant which, because of its nature or frequency, raises substantial health, safety, resource or equity issues for the parties to a complaint."

While it is not envisioned that the project will attract complainants that exhibit this behaviour, where a complainant is seen to potentially have a negative impact on the engagement representative or project team's health, safety, resourcing or equity of service, SFKC shall adhere to the procedures and practices outlined within the NSW Ombudsman's *"Managing Unreasonable Complainant Conduct Practice Manual 2<sup>nd</sup> Edition"*.





#### 5. Monitoring

Monitoring will be undertaken to measure the effectiveness of community consultation, stakeholder engagement and responses to complaints and enquiries. Opportunities for improvement will be south on a continuous basis, with an annual review by the Engagement Representative undertaken to formalise these incremental improvements.

The performance of this strategy will be monitored monthly based upon an assessment of the following data:

- Total number of monthly complaints
- Review of number of monthly complaints relating to lack of consultation/ misinformation confusion
- Review of number of monthly enquiries relating to information previously disseminated to the community through other channels
- Monthly review of enquiries or complaints of a similar nature or theme indicative of underlying systematic issues with the project or engagement strategy; and
- Response timeframes, including initial acknowledgement and the response to enquiries or remediation of issue(s).

Should updates be identified, the engagement representative shall update the document and advise the DPHI of the proposed amendments.





Making Sustainability Happen

# Appendix E Construction Waste Management Plan



# **Construction Waste Management Plan**

Aldington and Abbotts Road Upgrade & Mamre and Abbotts Road Intersection Upgrade

Kemps Creek



August 2024



### Limitations on use and reliance

Aspect Environmental Pty Ltd has prepared this report solely for the use of the Client and those parties with whom a warranty / end-user agreement or licence has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Aspect Environmental Pty Ltd; a charge may be levied against such approval.

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a) the consequences of this document being used for any purpose or project other than for which it was commissioned, and

b) the use of, or reliance on, this document by any third party with whom an agreement has not been formally executed.

The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client).

Should additional information become available which may affect the opinions expressed in this report, Aspect Environmental Pty Ltd reserves the right to review such information and, if warranted, to modify the opinions accordingly.

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Revision	Rev 03

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#### **Revisions**

Revision	Date	Description	Prepared by	Approved by
Rev 01	10/05/2024	Draft issued to client for review	J. Highman-Smith	M. Williams
Rev 02	25/07/2024	Updated post client review of draft	J. Highman-Smith	M. Williams
Rev 03	14/08/2024	Updated to include SSD CoC and CEMP referencing	J. Highman-Smith	M. Williams



# Contents

1 INTRODUCTION	5
1.1 Background	5
1.2 Project Description	5
1.3 Purpose of this Plan	6
1.4 Objectives and Targets	6
2 LEGAL AND OTHER OBLIGATIONS	9
2.1 Legislation	9
2.1.2 Protection of the Environment Operations Act 1997	9
2.1.3 Waste Avoidance and Resource Recovery Act 2001	10
2.1.4 Protection of the Environment Operations (Waste) Regulation 2014	10
2.1.5 Better Practice Guidelines 2012	10
2.1.6 NSW Waste and Sustainable Materials Strategy 2041	11
2.1.7 Waste Classification Guidelines 2014	11
2.1.8 Mamre Road Precinct Development Control Plan 2021	11
	11
2.2 Project Consent Conditions	11
2.3 Training and Awareness	12
3 IMPLEMENTATION	13
3.1 Estimated Construction Waste Generation	13
3.2 Waste Classification	14
3.3 Waste Reduction	17
3.4 Beneficial Reuse	17
3.5 Waste Storage	18
3.6 Waste Removal	19
4 MONITORING AND REVIEW	20
4.1 Environmental Inspections	20
4.2 Environmental Monitoring	20
4.3 Records, Compliance Reporting and Auditing	20
4.4 Contingency Management Plan	21
4.5 Non-compliances and Actions	21
4.6 Environmental Incident and Emergency Response	21
4.7 Environmental Reporting	21
4.8 CWMP Review and Revision Program	21
5	



#### Appendix A Consent Compliance Matrices

## List of Figures

Figure 1-1 Location of road and intersection upgrades	8
Figure 3-1 NSW EPA waste management signage	19
List of Tables	

Table 1-1 Waste management objectives and targets	6
Table 2-1 Legislative and related instruments relevant to the Project	9
Table 3-1 Estimated construction waste quantities	13
Table 3-2 Potential waste types and their management measures	15
Table 3-3 Waste reduction measures	17
Table 3-4 Beneficial reuse measures	17
Table 3-5 Waste storage measures	18
Table 3-6 Waste removal measures	19



## Glossary

AARU	Aldington and Abbotts Road Upgrade
Aspect	Aspect Environmental Pty Ltd
AT&L	AT&L Australia Pty Ltd
CEMP	Construction Environmental Management Plan
CoC	Condition(s) of consent
CWMP	Construction Waste Management Plan
DCP	Development Control Plan
ENM	Excavated Natural Material
Environmental Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
EPA	Environment Protection Authority
ER	Environmental Representative
MAIU	Mamre and Abbotts Road Intersection Upgrade
MRP	Mamre Road Precinct
POEO Act	Protection of the Environment Operations Act 1997
Project, the	Road upgrades to Aldington and Abbotts Road and Mamre and Abbotts Road intersection, Kemps Creek under SSD 9138102 and SSD 10479
Site, the	Public road reserves and private land across multiple residential properties located at Abbotts and Aldington Road, Kemps Creek, NSW
SSD	State significant development
WARR Act	Waste Avoidance and Resource Recovery Act 2001



# **1 INTRODUCTION**

## 1.1 Background

This Construction Waste Management Plan (CWMP) has been prepared by Aspect Environmental Pty Ltd (Aspect) on behalf of AT&L Australia Pty Ltd (AT&L), to support the development of road and intersection upgrades along Aldington Road and Abbotts Road, Kemps Creek. The works aim to upgrade Aldington Road and Abbotts Road, Mamre and Abbotts Road intersection and to provide for the development of land within the Mamre Road Precinct (the Project).

This CWMP has been prepared with reference to:

- State significant development (SSD) consent 9138102, dated 21 April 2023
- Westlink Stage 1 Modification 5 Final Modification Report (SSD 9138102) (Ethos Urban 21 March 2024)
- SSD consent 10479, dated 05 May 2023
- SSD 9138102 Environmental Impact Statement, Ethos Urban, 17 June 2021
- SSD 10479 Environmental Impact Statement, Ethos Urban, 11 November 2020
- Detailed Site Investigation, Abbotts Road and Aldington Road, ADE Consulting Group, 9 May 2023
- Detailed Site Investigation, Mamre Road and Abbotts Road, ADE Consulting Group, 9 May 2023
- Development Control Plan (DCP) Penrith, Penrith City Council, 2014
- Development Control Plan: Mamre Road Precinct Western Sydney Employment Area, NSW Department of Planning, Industry and Environment, November 2021
- State Environmental Planning Policy (SEPP) Western Sydney Aerotropolis 2020.

This CWMP is a sub-plan of the Construction Environmental Management Plan (CEMP).

## **1.2 Project Description**

The Project is located at Mamre, within the Penrith Local Government Area and is zoned as 'IN1 – General Industrial' under the Penrith City Planning Certificate under section 10.7(2) of the *Environmental Planning and Assessment Act 1979.* The Project forms part of the Mamre Road Precinct which sits within both the Western Sydney Employment Area and the Western Sydney Aerotropolis.

The Project site is located at Abbotts and Aldington Road, Kemps Creek, NSW and has an approximate length of 4 km (the Site). The Site comprises the existing road corridor and the frontage of the adjacent private lots including:

- Mamre Road and Abbotts Road intersection
- Abbotts Road
- part of Aldington Road



• frontage of private lots adjacent to the road corridor.

Land surrounding the Site is generally rural in nature comprising a variety of rural dwellings, rural land, farm dams and scattered vegetation.

The Project involves:

- widening the road beyond the existing road reserve either side on Aldington Road, Abbotts Road and Mamre Road
- signalised intersections
- earthworks including raising and lowering the road
- stormwater including new and larger culverts under and adjacent to road
- · relocation of services above and underground
- new services including water, power, communications
- site sheds, material storage as required for road construction
- temporary works as necessary to facilitate construction.

The road and intersection upgrades are being delivered under SSD 9138102 and SSD 10479. An aerial showing the location of the works is shown on Figure 1-1.

### 1.3 Purpose of this Plan

This CWMP defines the waste management framework for construction. The CWMP has been prepared to address conditions of the SSD 9138102 and SSD 10479 Development Consents related to waste and to provide methods to monitor and manage impacts from waste during the construction of the Project.

Construction is to be undertaken in accordance with the most recent, approved version of this CWMP.

Roles and responsibilities for environmental management of the Project are outlined in Section 3.2 of the CEMP.

### **1.4 Objectives and Targets**

Waste management objectives and targets have been established as a means of assessing environmental performance during construction. The objectives and targets in Table 1-1 have been developed with consideration of the key issues identified through the environmental assessment and risk assessment process.

Objective	Target	Monitoring Method
Enable compliance with relevant legislation, CoC, requirements and guidelines	No written warnings or infringement notices	<ul> <li>Daily site inspection checklist</li> <li>Daily logbook</li> <li>Environmental Representative (ER) monitoring, inspections and audits</li> </ul>

#### Table 1-1 Waste management objectives and targets



Objective	Target	Monitoring Method
Manage waste generated during construction	In accordance with targets within Penrith City Council's Waste Hierarchy	Waste reporting
Manage contaminated and hazardous waste	Remove all contaminated or hazardous materials from site to an appropriate licensed facility	Qualified and certified contractors





Figure 1-1 Location of road and intersection upgrades



# 2 LEGAL AND OTHER OBLIGATIONS

## 2.1 Legislation

The regulatory framework for the Project is summarised in Section 3.3.2 of the CEMP, which identifies relevant legislative instruments, including legislative and voluntary obligations, permits and licences, and their key objectives and relevance to the Project.

Relevant legislative instruments for management of waste are summarised in Table 2-1. Additional details on the waste management requirements of these instruments and the requirements of guidelines are provided in the following sections.

Legislation	Key Project Requirements	Applicability	
Environment Planning and Assessment Act 1979	Establishes a system of environmental planning and assessment of proposed developments in NSW The Project must comply with the requirements of SSD 9138102 and SSD 10479 Development Consents	All works	
	Mamre Road Precinct Development Control Plan 2021: Reducing Penrith's ecological footprint by encouraging the diversion of waste from landfill	Management and reuse/ diversion of construction waste on site from landfill	
Protection of the Environment Operations Act 1997 (POEO Act)	Aims to aid the protection, restoration and enhancement of the quality of the NSW environment Identifies activities for which an Environment Protection Licence is required	Pollution incidents that have caused or give rise to material harm The handling, storage and disposal of all construction waste	
Waste Avoidance and Resource Recovery Act 2001	Waste exemptions under the POEO Act administration regulation	Management of construction waste on site	

Table 2-1 Legislative and related instruments relevant to the Project

Where updated or revised versions of guidelines, protocols, standards or policies, or a replacement of them are available, the most recent versions should be applicable to this CWMP.

#### 2.1.2 Protection of the Environment Operations Act 1997

All material to be removed from the site, including associated activities such as classification, are to be undertaken in strict accordance with the requirements of the POEO Act. Such requirements include:

- ensuring waste is classified appropriately and in accordance with relevant guidelines
- waste materials are disposed of at appropriately licensed facilities
- other materials are removed to facilities lawfully able to accept such materials.



### 2.1.3 Waste Avoidance and Resource Recovery Act 2001

The *Waste Avoidance and Resource Recovery Act 2001* (WARR Act) establishes the waste hierarchy to ensure that resource management options are considered against the following priorities:

- 1. Avoidance actions to reduce the amount of waste generated and undertaking activities.
- 2. Resource Recovery which includes reuse, reprocessing, recycling and energy recovery, consistent with the most efficient use of the recovered resources.
- 3. Disposal an "end-of-pipe" option that must be carefully undertaken to minimise any negative environmental outcomes.

The objectives of the WARR Act include:

- encouraging the avoidance of waste and the reuse and recycling of waste
- ensure that industry shares with the community the responsibility for reducing and dealing with waste
- ensure the efficient funding of waste and resource management planning, programs and service delivery
- achieve integrated waste and resource management planning, programs and service delivery on a State-wide basis
- to assist in the achievement of the objectives of the POEO Act.

### 2.1.4 Protection of the Environment Operations (Waste) Regulation 2014

The Regulation encourages the recovery of resources from waste by issuing both general and specific resource recovery exemptions. Where no general exemption is available for the intended use, a specific exemption may be issued after an application is made to the NSW EPA. Specific exemptions are not publicly available.

The Regulation makes requirements relating to non-licensed waste activities and waste transporting. The proposed works on the site will not require to be licensed. Section 48 of the Regulation requires that wastes are stored in an environmentally safe manner. It also stipulates that vehicles used to transport waste must be covered when loaded.

The Regulation exempts certain waste streams from the full waste tracking and record keeping requirements. Waste tracking is required only for industrial and hazardous wastes.

#### 2.1.5 Better Practice Guidelines 2012

The NSW EPA (2012) Better Practice Guidelines for Waste Management and Recycling in Commercial and Industrial Facilities promotes efficient waste minimisation and resource recovery for commercial and industrial facilities and is used as a benchmark document when assessing waste production rates within Australia.

Better practice waste management systems in commercial buildings may incorporate any, or all, of the following:

• Garbage services to manage residual wastes (those not collected by a dedicated recycling or organics collection service).



- Recycling services to manage dry recyclable materials. These materials may vary from building to building, but generally cover recyclable materials generated in a typical business, including office paper, cardboard, plastic film, metals and recyclable containers.
- Organics services to manage garden and food organics, which may include a bin-based collection system or onsite composting.
- Bulky waste services to manage bulky items, such as furniture and fit-out materials.
- Special waste services for items such as toner cartridges, batteries, fluorescent lights, mobile phones and chemicals.

#### 2.1.6 NSW Waste and Sustainable Materials Strategy 2041

As well as waste reduction and recycling, Stage 1: 2021-2027 of NSW Waste and Sustainable Materials Strategy 2041, focuses on the environmental benefits and economic opportunities in how we manage our waste.

The main targets of the Strategy are as follows:

- 1. Reduce total waste generated by 10% per person by 2030.
- 2. Have an 80% average recovery rate from all waste streams by 2030.
- 3. Significantly increase the use of recycled content by governments and industry.
- 4. Phase out problematic and unnecessary plastics by 2025.
- 5. Halve the amount of organic waste sent to landfill by 2030.

The Strategy also includes the following recycling targets (as relevant to the Project):

- plastic litter reduction target of 30% by 2025
- introduce a new overall litter reduction target of 60% by 2030.

#### 2.1.7 Waste Classification Guidelines 2014

All wastes generated and proposed to be disposed offsite will be assessed, pre-classified or classified, and managed in accordance with the NSW EPA (2014) Waste Classification Guidelines, Part 1: Classifying Waste.

#### 2.1.8 Mamre Road Precinct Development Control Plan 2021

In accordance with Section 4.5 (Waste Minimisation and Management) of the MRP DCP, one of the objectives of the MRP DCP is to assist in reducing Penrith's ecological footprint by encouraging the diversion of waste from landfill.

The MRP DCP has been prepared in accordance with the WARR Act 2001 and came into effect in November 2021.

#### 2.1.9 Approvals, Licences and Permits

No additional approvals, licences and permits for waste management during the construction of the Project are expected to be required.

## **2.2 Project Consent Conditions**

The Project is to be constructed in accordance with SSD 9138102 and SSD 10479 Development Consents. The conditions which apply to waste management are identified in Appendix A.



## 2.3 Training and Awareness

As detailed in Section 3.4 of the CEMP, all Project personnel will be made aware of the sitespecific waste management requirements through a site induction and prestart meetings/toolbox talks prior to the commencement of construction.

All Project personnel will be suitably qualified, but individual team members may benefit from specific waste management training to help them better manage the environmental impacts of the Project, where they will be made aware of:

- waste and resource requirements
- legislation requirements
- roles and responsibilities
- control measures
- incident management and response.

The copy of the approved version of the CWMP is to be maintained on site during construction.

Short-term visitors to the Project site will be required to undertake a visitor's induction and be accompanied by inducted personnel.

Incident and Non-compliance Response and Handling Procedure, Sections 5.5 and 5.6 of the CEMP, details the procedures that will be implemented for the:

- classification of incidents, including pollution incidents
- handling of incidents and non-compliances
- · implementation of corrective actions
- notification of incidents including material harm pollution incidents and non-compliances to regulatory agencies
- reporting of incidents and non-compliance.

These procedures will be implemented for any incidents and non-compliances related to waste management during construction of the Project.



# **3 IMPLEMENTATION**

This section outlines the management measures to be implemented to manage waste generated during the construction of the Project. Elements covered include:

- waste classification
- waste reduction
- beneficial reuse
- waste storage
- waste removal.

Waste management measures are detailed in the following sub-sections. A Contingency Plan has been prepared (see CEMP) which details response to ineffective waste management during construction of the Project.

The applicable controls required in the MRP DCP have been incorporated into the relevant subplans as required.

CoC B91 for SSD 9138102 and D87 for SSD 10479 requires the details of the type and quantity of waste to be generated during construction and operation of the development.

### **3.1 Estimated Construction Waste Generation**

The construction of the Project is anticipated to generate moderate volumes of waste. Estimated construction waste quantities for the Project are summarised in Table 3-1.

Waste Type	Estimated Quantity	Reuse	Recycle	Dispose	Method
Stripped topsoil (Excavated Natural Material (ENM))	9,000m <sup>3</sup>	~	-	-	Re-used for re-vegetation works on the Project, and on other projects via existing resource recovery orders and exemptions.
Milled / excavated pavement materials	7,500m <sup>3</sup>	~	-	-	Re-used for earthworks / pavement material on the Project, or other projects via existing resource recovery orders and exemptions.
Felled trees	150m <sup>3</sup>	4	-	-	Mulched onsite. Re-used for re-vegetation works on the Project, and on other projects via existing resource recovery orders and exemptions.
Concrete	<500t	-	1	-	Recycled offsite at licensed facility
Metals / cable	<50t	-	1	-	Recycled offsite at licensed facility
Conduits / Pipes	<2t	-	4	-	Recycled offsite at licensed facility
Timber	<2t	-	4	-	Recycled offsite at licensed facility

Table 3-1 Estimated construction waste quantities



Waste Type	Estimated Quantity	Reuse	Recycle	Dispose	Method
Pallets	<100 Units	1	-	-	Return to supplier / distributor for re-use
Cardboard packaging	<5t	-	4	-	Recycled offsite at licensed facility
Non-recyclable waste from offices / lunchrooms	<5t	-	√	-	Recycled offsite at licensed facility
Non-recyclable waste from offices / lunchrooms	<5t	-	-	✓	Disposed offsite at licensed facility by licenced waste collection contractor.
Waste from ablutions	<100,000L	<b>v</b>	√	V	Waste tanks pumped out weekly by licenced contractor. Treated offsite at licenced liquid waste treatment facility. Combination of reused / recycled and waste bi-products.

## **3.2 Waste Classification**

The construction of the Project will generate the following core waste streams:

- site preparation waste
- general construction waste
- construction plant maintenance waste
- packaging waste
- work compound waste from onsite employees.

A summary of waste types that may be generated by construction activities, along with their waste classifications and typical management measures, is provided in Table 3-2.

The NSW EPA website (<u>https://www.epa.nsw.gov.au/your-environment/waste</u>) provides further information on managing construction waste and classifying waste types. All wastes generated during construction works will be classified in accordance with the requirements of NSW EPA (2014) Waste Classification Guidelines, Part 1: Classifying Waste.



#### **Table 3-2** Potential waste types and their management measures

Waste Source and Types	NSW EPA Waste Classification	Typical Management Measures					
Site Preparation							
Clean fill	ENM/ Virgin Excavated Natural Material	Onsite reuse					
Contaminated fill	To be classified subject to the results of testing	Offsite treatment or disposal to landfill					
Excavated natural material or virgin excavated natural material	General solid waste (non-putrescible)	Onsite reuse of topsoil for landscaping of the site, offsite beneficial reuse or send to landfill site					
Construction							
Sediment fencing, geotextile materials	General solid waste (non-putrescible)	Reuse at other sites where possible or disposal to landfill					
Concrete	General solid waste (non-putrescible)	Recycle offsite for filling, levelling or road base					
Sand or soil	General solid waste (non-putrescible)	Offsite recycling					
Metals such as fittings, appliances and bulk electrical cabling, including copper and aluminium	General solid waste (non-putrescible)	Offsite recycling at metal recycling compounds and remainder to landfill					
Conduits and pipes	General solid waste (non-putrescible)	Offsite recycling					
Timber	General solid waste (non-putrescible)	Offsite recycling, chip for landscaping, sell for firewood Treated: reused for formwork, bridging, blocking, propping or second-hand supplier Untreated: reused for floorboards, fencing, furniture, mulched second-hand supplier Remainder to landscape supplies					
Glass	General solid waste (non-putrescible)	Offsite recycling, glazing or aggregate for concrete production					
Asbestos	Special waste	Offsite disposal at a licensed landfill facility					
Plant Maintenance	·	·					



Waste Source and Types	NSW EPA Waste Classification	Typical Management Measures
Empty oil and other drums or containers, such as fuel, chemicals, paints, spill clean ups	Hazardous waste: Containers were previously used to store Dangerous Goods (Class 1, 3, 4, 5 or 8) and residues have not been removed by washing or vacuuming. General solid waste (non-putrescible): Containers have been cleaned by washing or vacuuming.	Transport to comply with the transport of Dangerous Goods Code applies in preparation for offsite recycling or disposal at licensed facility
Air filters and rags	General solid waste (non-putrescible)	Offsite disposal
Batteries	Hazardous waste	Offsite recycling, the Australian batteryrecycling.org.au provides more information
Tyres	Hazardous waste	Offsite disposal
Packaging		
Packaging materials, including wood, plastic, cardboard, metals and stretch wrap made of Linear Low-Density Polyethylene (LLPE)	General solid waste (non-putrescible)	Offsite recycling
Wooden or plastic crates and pallets	General solid waste (non-putrescible)	Reused for similar projects, returned to suppliers, or offsite recycling businessrecycling.com.au provides more information
Work Compound and Associated Offices		
Food waste	General solid (putrescible) waste	Dispose to landfill with general garbage
Recyclable beverage containers including glass and plastic bottles, aluminium cans and steel cans	General solid waste (non-putrescible)	Co-mingled recycling at offsite licensed facility or deliver to local NSW container deposit scheme 'Return and Earn' facility
Clean paper and cardboard	General solid waste (non-putrescible)	Paper and cardboard recycling at offsite licensed facility
General domestic waste generated by workers such as soiled paper and cardboard and polystyrene	General solid waste (non-putrescible) mixed with putrescible waste	Disposal at landfill


#### **3.3 Waste Reduction**

Waste-type-specific reduction measures are to be employed during construction, with the measures detailed in Table 3-3 implemented.

Та	ble	3-3	Waste	reduction	measures
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ID	Management Measure	Responsibility	Timing/ Frequency
WM 1	Apply practical construction techniques	Construction Contractor	Construction
WM 2	Appropriate sorting and segregation of construction wastes to ensure efficient recycling of wastes	Construction Contractor	Construction
WM 3	Select construction materials taking into consideration their long lifespan and potential for reuse	Construction Contractor	Construction
WM 4	Order materials to size and order pre-cut and prefabricated materials	Construction Contractor	Construction
WM 5	Reuse formwork (where possible)	Construction Contractor	Construction
WM 6	Planned work staging	Construction Contractor	Construction
WM 7	Reduce packaging waste on-site by returning packaging to suppliers where possible, purchasing in bulk, requesting cardboard or metal drums rather than plastics, requesting metal straps rather than shrink wrap and using returnable packaging such as pallets and reels.	Construction Contractor	Construction
WM 8	Careful on-site storage and source separation	Construction Contractor	Construction
WM 9	Subcontractors informed of site waste management procedures	Construction Contractor	Construction
Wm 10	Coordination and sequencing of various trades	Construction Contractor	Construction

#### **3.4 Beneficial Reuse**

The anticipated beneficial reuses of construction waste are detailed in Table 3-4.

<b>Table 3-</b> Demendial reuse measures
--

ID	Management Measure	Responsibility	Timing/ Frequency
WM 11	All solid waste timber, concrete and rock that cannot be reused or recycled will be taken to an appropriate facility for treatment to recover further resources or for disposal to landfill in an approved manner.	Construction Contractor	Construction
WM 12	All asbestos, hazardous and/or intractable wastes are to be disposed of in accordance with SafeWork Authority and NSW EPA requirements.	Construction Contractor	Construction



ID	Management Measure	Responsibility	Timing/ Frequency
WM 13	Portable, self-contained toilet and washroom facilities will be provided at the site and will be regularly emptied and serviced by a suitably qualified contractor.	Construction Contractor	Construction
WM 14	Provision for the collection of batteries, fluorescent tubes and other recyclable resources will be provided onsite to enable offsite recycling.	Construction Contractor	Construction
WM 15	Drink container recycling should be provided onsite or these items sorted offsite for recycling at an appropriately licensed facility.	Construction Contractor	Construction
WM 16	All garbage will be disposed of via a council approved system.	Construction Contractor	Construction
WM 17	Opportunities for materials exportation and reuse with other local construction operations will be investigated.	Construction Contractor	Construction

#### 3.5 Waste Storage

Waste will be stored and managed on site during construction as detailed in Table 3-5.

#### Table 3-5 Waste storage measures

ID	Management Measure	Responsibility	Timing/ Frequency
WM 18	Waste storage locations will be accessible and allow sufficient space for storage and servicing requirements. These locations will also be flexible in order to cater for change of use throughout construction.	Construction Contractor	Construction
WM 19	Where space is restricted, dedicated stockpile areas are to be delineated on the site, with regular transfers to dedicated skip bins for sorting. The positions of the designated waste holding areas on site will change according to construction works and their progression, but must consider visual amenity, OH&S and accessibility in their selection.	Construction Contractor	Construction
WM20	All waste placed in stockpile areas/skips for disposal or recycling will be adequately contained to ensure that the waste does not fall, blow, wash or otherwise escape from the site.	Construction Contractor	Construction
WM 21	Appropriate siting of waste stockpile locations will take into account slope and drainage factors to avoid contamination of stormwater drains during rain events.	Construction Contractor	Construction
WM 22	Waste/recycling storage locations will be assigned during the construction works and will provide adequate space to accommodate all waste and recycling bins associated with the construction.	Construction Contractor	Construction
WM 23	Recycling bins will be accessible to all construction employees and must be clearly sign-posted and colour coded to ensure segregation of waste and recycling is effective. See Figure 3-1 for standard NSW EPA signage.	Construction Contractor	Construction
WM 24	Waste containers will be kept clean and in a good state of repair.	Construction Contractor	Construction







#### 3.6 Waste Removal

Waste will be removed and disposed of during construction as detailed in Table 3-6.

Table	3-6	Waste	removal	measures
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ID	Management Measure	Responsibility	Timing/ Frequency
WM 25	All wastes removed from the site shall be transported in accordance with relevant road and transportation regulatory requirements and in accordance with the existing Construction Traffic Management Plan. Where required (depending on the classification of the wastes), appropriately licensed transport contractors shall be used.	Construction Contractor	Construction
WM 26	<ul> <li>The appointed transporters shall be responsible for ensuring they are appropriately licensed to:</li> <li>carry the particular type of waste</li> <li>transport the materials to an appropriately licensed facility.</li> </ul>	Construction Contractor / Waste Disposal Transporter	Construction
WM 27	Where the waste is classified as restricted waste or hazardous waste, the transporter is required to carry (subject to a number of exceptions) appropriately completed waste data forms with each load and provide a copy to the waste facility to which the waste is taken.	Construction Contractor / Waste Disposal Transporter	Construction



# **4 MONITORING AND REVIEW**

#### **4.1 Environmental Inspections**

Regular site inspections will be undertaken as described in Section 5.1 of the CEMP. Inspections are to be completed to:

- verify compliance with CoC
- determine conformance with the reuse, recycle and disposal measures detailed within this CWMP
- · review the effectiveness of waste management controls
- document observation and track performance.

Site inspection checklists and logs are to be documented and reported to the Construction Contractor. Any corrective actions undertaken are to be documented and maintained onsite.

#### 4.2 Environmental Monitoring

As described in Section 5.2 of the CEMP, monitoring will be undertaken to evaluate the effectiveness of the implementation of this CWMP, and to address any legal and compliance requirements. The ER will be advised of any construction phase non-compliance from monitoring, and details reported in accordance with the environmental incident reporting process.

Where a non-compliance is detected or monitoring results are outside of the expected range and are directly attributable to the Project (influenced by factors under the direct control of the Project, e.g. construction waste disposal), the process described in Section 5.5 of the CEMP will be implemented.

Waste monitoring will be undertaken to assist in the management of the waste and to obtain accurate waste generation records. Monitoring includes:

- recording waste generated and disposal methods
- · reviewing past waste disposal receipts
- recording waste volumes recycled, reused or contractor removed in accordance with Penrith DCP.

Waste audits may be periodically completed to gauge the effectiveness and efficiency of waste segregation procedures and recycling and reuse initiatives.

#### 4.3 Records, Compliance Reporting and Auditing

All Project documentation and records related to waste management and compliance reporting will be completed as described in Section 5.3 of the CEMP.

The Project will undertake an internal Health, Safety, Security and Environment audit of the Project annually (Section 5.3 of the CEMP). Audits will involve a review of all environmental documents, records and reports to verify compliance with the CEMP and this CWMP. In addition, the ER may at any time request documents and evidence confirming implementation of the CEMP and sub-plans.



Key environmental and procedural aspects to be covered by the audit may include:

- environmental mitigation measures detailed in this CWMP
- adherence to reporting procedures
- complaint and incident management
- legislative requirements.

Records of auditing and reporting will be maintained to demonstrate compliance.

#### 4.4 Contingency Management Plan

If inspections, monitoring and/or auditing indicate that the mitigation measures listed in this CWMP are not effective in managing environmental impacts, the flora and fauna mitigation measures detailed in the Contingency Management Plan are to be implemented. The Contingency Management Plan is included as Appendix O of the CEMP.

These responses manage any unpredicted impacts and their consequences. The Contingency Management Plan would check that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible.

#### 4.5 Non-compliances and Actions

Section 5.5 of the CEMP details the Project team's response following the identification of a noncompliance with the CoC, the CEMP and sub-plans. This includes the reporting, investigation and notification of non-compliances. Non-compliances with this CWMP will be addressed as required by the CEMP.

#### 4.6 Environmental Incident and Emergency Response

Section 5.6 of the CEMP details environmental incidents and the response to environmental emergencies for the Project. This includes the reporting, notification and investigation of environmental incidents. Emergency contact details are also provided.

In the event of an environmental incident or emergency related to the implementation of this CWMP, the responses detailed in the CEMP are to be implemented.

#### **4.7 Environmental Reporting**

Environmental reporting for the Project is described in Section 5.7 of the CEMP.

#### 4.8 CWMP Review and Revision Program

As described in Section 5.8 of the CEMP, the Project will annually review the adequacy of the environmental mitigation measures within the CEMP and sub-plans (including this CWMP), as well as the effectiveness of their implementation to determine whether they are still applicable to the activities being carried out onsite.

All employees and contractors are to be informed of any revisions to the CWMP during toolbox talks.



# Appendix A Consent Compliance Matrices

CoC	Instrument	CWMP Section
SSD	9138102	
B91	Prior to the commencement of construction of the first warehouse building, the Applicant must update the Waste Management Plan included in the EIS for the development. The Plan must:	This Plan a) Table 3-1 b) Section 3
	(a) detail the type and quantity of waste to be generated during construction and operation of the development;	c) Table 3.4
	(b) describe the handling, storage and disposal of all waste streams generated on site, consistent with the <i>Protection of the Environment Operations Act 1997</i> , Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classification Guideline (Environment Protection Authority, 2014); and	
	(c) detail the materials to be reused or recycled, either on or off site.	
B92	The Applicant must implement the Waste Management Plan for the duration of construction and operation.	Noted
B94	Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.	Section 3
B95	The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the latest version of EPA's Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014) and dispose of all wastes to a waste management facility or premises lawfully permitted to accept the waste.	Section 3.2
	SSD 10479	
D87	Prior to the commencement of construction of the Stage 1 development, the Applicant must update the Waste Management Plan included in the EIS for the development. The Plan must: (a) detail the type and quantity of waste to be generated during construction and operation of	This Plan a) Table 3-1 b) Section 3
	the Stage 1 development;	c) Table 3.4
	(b) describe the handling, storage and disposal of all waste streams generated on site, consistent with the Protection of the Environment Operations Act 1997, Protection of the Environment Operations (Waste) Regulation 2014 and the Waste Classification Guideline (Environment Protection Authority, 2014); and	
	(c) detail the materials to be reused or recycled, either on or off site.	
D88	The Applicant must implement the Waste Management Plan for the duration of construction and operation.	Noted
D90	Waste must be secured and maintained within designated waste storage areas at all times and must not leave the site onto neighbouring public or private properties.	Section 3
D91	The Applicant must assess and classify all liquid and non-liquid wastes to be taken off site in accordance with the latest version of EPA's Waste Classification Guidelines Part 1: Classifying Waste (EPA, 2014) and dispose of all wastes to a waste management facility or premises lawfully permitted to accept the waste.	Section 3.2

# Appendix F Unexpected Contamination Finds Protocol



### **Unexpected Contamination Finds Protocol**

Mamre Road, Abbotts Road and Aldington Road Upgrade, Kemps Creek NSW

Prepared for: Land Owners Group – East C/O AT&L

A101024.0241.00 | UCFP\_V4f | Date: 29 November 2024





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#### Contents

1	Intr	oduction1				
	1.1	Developmental Consent1				
	1.2	Proposed Development				
	1.3	Objectives				
	1.4	Legislative Requirements				
2	<b>Une</b> 2.1	expected Finds Protocol				
	2.2	Potential Types of Unexpected Finds				
	2.2.1	Unexpected Materials/Substances3				
	2.2.2	Potential Hazardous Materials (i.e. Asbestos)				
	2.2.3	3 Unidentified Contamination				
	2.3	Potential Unexpected Find Characteristics				
	2.4	Off-Site Disposal of Waste				
	2.4.1	Regulatory Requirements				
3	Imp	lementation, Monitoring and Review7				
	3.1	Roles and Responsibilities				
	3.2	Worker and Contractor Training				
	3.3	Audit and Review Process				
4	Bibl	liography9				
A	ppendi	ix A – Unexpected Finds Protocol10				
Α	ppendi	ix B – Unexpected Finds Register11				

#### **Tables**

Table 1. Summary of Non-specific Unexpected Finds	1
Table 2. Relevant Roles and Responsibilities for the implementation of the UCFP.	7



#### **1** Introduction

ADE Consulting Group Pty Ltd (ADE) was engaged by the Land Owners Group – East or LOG-E (the 'client') to complete an unexpected contamination finds protocol (UCFP) to support the implementation of a construction environmental management plan (CEMP) for the proposed road upgrade being performed on Mamre Road, Abbotts Road and Aldington Road (AARU and MAIU), Kemps Creek, New South Wales (NSW) (the 'site').

The term 'unexpected find' relates to the following being potentially exposed or encountered during the proposed construction activities:

- Unexpected materials / substances.
- Potential hazardous materials or substances (i.e., asbestos).
- Unidentified contamination including but not limited to odorous soils or visually contaminated materials.

As unexpected finds can occur at any stage of the bulk earthworks program, all site personnel should be informed of their obligations to report unexpected finds and provided examples of what are unexpected finds and those that may be likely to occur on the project. The information can be delivered in the form of training and awareness programs such as site inductions, toolbox talks, safety audits and alerts.

This sub-management plan is considered to be a supplemental document and is to be read and reviewed in conjunction within the requirements of the CEMP.

#### **1.1 Developmental Consent**

A development application (DA) is a formal application for development that requires consent under the NSW Environmental Planning and Assessment Act 1979 (EP&A Act). The conditions of Development Consent (SSD 10479 200A and SSD-9138102) include:

- (D83) Prior to the commencement of earthworks, the Applicant must prepare an unexpected contamination finds procedure to ensure that potentially contaminated material is appropriately managed. The procedure must form part of the CEMP in accordance with condition C2 and must ensure any material identified as contaminated is disposed of in accordance with the POEO Act and its associated regulations. Details of the final disposal location and the results of any associated testing must be submitted to the Planning Secretary prior to removal of the contaminated material from the site.
- (D25) Prior to the commencement of the External Road Works, the Applicant must prepare a Construction Environmental Management Plan (CEMP) for the External Road Works in accordance with the requirements of Condition C1 and to the satisfaction of the Planning Secretary. The CEMP must include the following:
  - (H) an unexpected finds procedure to manage any unexpected contamination encountered during the works, including details of testing and off-site disposal in accordance with the POEO Act and associated regulations.

#### **1.2 Proposed Development**

It is understood that the proposed road upgrade or 'proposed development' comprises of a 4 kilometre (km) stretch of road from the intersection of Mamre Road and Abbotts Road, extending up Aldington Road, Kemps Creek. The site has an approximate length of 4 km and is situated within the local government area (LGA) of Penrith City Council.



#### 1.3 Objectives

This UCFP outlines the following steps in identifying and responding to unexpected finds:

- Identification of the unexpected find encountered.
- Stop work/isolation procedures.
- Assessment of the find.
- Requirements for remediation, validation, or removal of the unexpected find (UXF).
- Development of "below the line" controls to respond to UCFP incidents such as incident registers, internal notification procedures, and New South Wales Environment Protection Authority (NSW EPA) notification procedures.

#### 1.4 Legislative Requirements

In NSW, there are multiple regulatory frameworks for managing chemical contaminants and asbestos in soils and a regulatory framework for managing contaminants in the workplace. The unexpected find protocol has been developed in conjunction with local, state, and national environmental regulations and planning guidelines including:

- Environmental Planning and Assessment Act 1979 (NSW).
- Work Health and Safety Act (2011).
- Work Health and Safety Regulation (2017).

This report has been developed in accordance with the following guidelines and regulations:

- SafeWork NSW (2022a). Code of Practice: How to manage and control asbestos in the workplace.
- SafeWork NSW (2022b). Code of Practice: How to safely remove asbestos.
- SafeWork Australia (2024). Workplace exposure standards for airbourne contaminants.
- Workcover NSW (2014). Managing asbestos in, or on, soil.

#### **2** Unexpected Finds Protocol

This UCFP has been developed to provide guidance on processes to follow if an unexpected find is encountered during proposed construction activities occurring within the site. The recommended protocol is summarized as a flowchart in **Appendix A – Unexpected Finds Protocol**. Al unexpected finds must be recorded within the unexpected finds register and held in record for a minimum of 5 years by the site owner or manager (refer to **Appendix B – Unexpected Finds Register**).

#### 2.1 Worker Response

In the event of an unexpected find occurring, work in the area should cease and the process of assessment and management be implemented. A minimum 10 metre square exclusion zone must be established around the affected area using appropriate barriers or signage.

Works are not to recommence in the affected area until appropriate advice has been obtained from the environmental consultant and relevant information has been provided to all parties e.g., site supervisor / project manager / principal contractor to issue notification to recommence. If it is deemed safe to do so by the suitably qualified person, works may resume in the affected area.



#### 2.2 Potential Types of Unexpected Finds

Three general classes of potential unexpected finds which are maybe encountered within the project, including:

- Unexpected materials / substances. (e.g., fibrous materials or unidentified liquids)
- Potential hazardous materials or substances (i.e., asbestos).
- Unidentified contamination including but not limited to odorous soils or visually contaminated materials.

Radiological hazards are not addressed in this UCFP, given the site's history and the low on-site risk of the radiological components.

All unexpected finds must be managed in accordance with the unexpected finds flowchart detailed within **Appendix A – Unexpected Finds Protocol**. The following sub-sections outline the various procedures to be implemented for unexpected finds scenarios above.

#### 2.2.1 Unexpected Materials/Substances

Unexpected materials and or substances may be encountered throughout the project which may exist in varying forms of media (e.g., solid, liquid or gas). Any material suspected of potentially containing asbestos must be considered as containing asbestos or a 'positive' detection until otherwise verified by a NATA accredited laboratory.

Upon identification, all work must cease within the area and the unexpected find notified immediately to the site manager. The affected area must be isolated with a suitable safety barrier or perimeter and appropriate signage erected. If it is safe to do so, all efforts must be made to contain or prevent the spread of potential contamination. This may be in the form of physical barriers, absorbents, or spill kits. All unexpected finds must be inspected by a suitably qualified environmental consultant prior to work recommencing.

#### 2.2.2 Potential Hazardous Materials (i.e. Asbestos)

If ACM is encountered within areas previously classified as not containing ACM, the contractor shall stop work and inform the environmental consultant, who will re-evaluate the site assessment. Any incidents that may potentially arise shall be managed in accordance with **Appendix A**. Remediation works shall be undertaken under the supervision of a competent person appointed by the contractor or the client or be performed in accordance with an approved remedial works plan (RWP).

Any ACM found within the soil should be dealt with in accordance with the methods outlined within NEPC (2013) and other relevant NSW EPA endorsed guidelines. Further soil sampling for delineation and validation shall be undertaken until the soils are deemed clear of asbestos.

The following control measures should be implemented if the soil suspected of containing asbestos is encountered during excavation works:

- The Licenced Asbestos Removal Contractor should be engaged by the client and notified asbestos removal activity to SafeWork NSW 2014 at least five days prior to commencement of removal activities.
- Setting up a restricted zone as determined by an independent licensed asbestos assessor or competent person.
- Preparation of an asbestos removal control plan (ARCP) for the site which will remain in place for the duration of the development works.
- Ensuring there is minimal disturbance of the contaminated soil until the asbestos management procedures have been implemented.
- Isolating and securing the removal work site using signs and barriers.
- Controlling dust with dust suppression techniques (such as water and wetting agents).



- Providing personal protective equipment (PPE) based on the level of contamination and the control
  measures implemented.
- Sampling and / or air monitoring.
- Providing education and training for workers on hazard and safe work practices to minimise air borne dust exposure.
- Implementing decontamination procedures for the workers and the equipment.

All removal works must be performed in accordance with the project's asbestos management plan (AMP), asbestos removal control plan (ARCP) and other relevant legislation and planning requirements.

#### 2.2.3 Unidentified Contamination

Visual/olfactory indicators of potential contamination include:

- Hydrocarbon odours.
- Staining or discoloured soils.
- Sulfidic odours, seashells, or other signs of acid sulfate soils.
- Paint chips.

A summary of potential unexpected find characteristics is provided in **Section 2.3**. If potential contamination is found during excavation works, the following controls will ensue:

- Upon discovery of further Areas of Environmental Concern (AECs), the site manager is to be notified and the area physically isolated with appropriate signage.
- Visual identification of the nature of the issue and the likely extent of the AEC by the environmental consultant.
- The environmental consultant is to conduct appropriate investigations with a view to identifying the nature and extent of the contamination.

#### 2.3 Potential Unexpected Find Characteristics

Based on findings of previous investigations and site history, unexpected finds which maybe encountered within the site are summarised in **Table 1**.

Potential Unexpected Find	Observed Characteristics	Type of Potential Contaminants
Buried dry waste materials	May include a variety of waste materials including wood, plastic, metal fragments, building rubble (e.g. concrete, brick, asphalt, forms of asbestos etc.).	Asbestos, heavy metals
Buried putrescible wastes	Putrescible waste materials typically comprise decomposed organic waste materials intermixed within the fill materials on site, with an associated characteristic rotten egg type odour. Such materials should not be confused with decomposed plant matter found within the natural sandy soils.	Various
Structures or conduits containing deleterious materials	Could be identified as follows: A buried tank, or cess pit, or former process pipelines; Deeper sand fill sometimes with visual/olfactory indications of contamination. Presence of small concrete footings surrounding by odorous of visually impacted soils and/or groundwater.	TRH, BTEX, PAH, asbestos
Ash or slag deposits	Ash materials typically light weight, grey and white sand and gravel sized (1mm to 10mm) particles. Slag materials can be varied in consistency and colour and may comprise pale grey to blue/green/grey and be loose or cemented.	Heavy metals, PAHs, alkalinity

Table 1. Summary of Non-specific Unexpected Finds.



Potential Unexpected Find	Observed Characteristics	Type of Potential Contaminants
	Slag gravels can be very angular and appear to have a vesicular (i.e. 'honeycomb') texture.	
Buried or surface bonded ACM, Asbestos fines/friable asbestos	Fibre cement-ACM (e.g. compressed cement sheeting) may be present in building waste or pipes. Friable forms of asbestos including lagging and insulation, textured coatings and vinyl floor tiles may also contain asbestos. Fines and fibres are not typically visible to the unaided eye. Laboratory analysis is required to identify asbestos in soil.	Asbestos
Hydrocarbon Compounds	Identifiable by either odour and/or visual indications of contamination. Characteristic petrol, diesel or 'oily' odours (e.g. hydraulic oil) which may vary in strength from weak (just detectable) to very strong (easily detectable at a distance from the source). In soils, the odour may or may not be accompanied by specific areas of dark staining (black grey) or larger scale discolouration of strata from a previously identified 'natural colour' (e.g. staining of orange and brown clay to dark grey and green.) May also be visible as a distinct coloured sheen on water within an excavation.	TRH, BTEX, PAH
Landfill type material	Could include a combination of the other categories along with domestic (e.g. clothing), clinical (e.g. human tissue or hair, laboratory specimens etc.), and/or putrescible waste (e.g. food scraps, nappies, etc.).	Heavy metals
Other unusual odours	Other unusual odours that a different from surrounding soils, such as a sweet odour could indicate the presence of chlorinated hydrocarbon contamination.	Various e.g., Solvent odour, Acetone odour, Alcohol odour, Caustic odour, Acidic odour, Ammonia odour, Sulfur odour (possibly associated with acid sulfate soil)

Notes to Table 1

\*TRH: Total recoverable hydrocarbons

\*\*BTEX: Benzene, toluene, ethylbenzene, xylenes

\*\*\*PAH: Polycyclic Aromatic Hydrocarbons

#### 2.4 Off-Site Disposal of Waste

Soil materials destined for off-site disposal must be chemically assessed to determine its current classification status in accordance with relevant NSW EPA publications and legislative requirements. Consideration should be made if any of the soil materials have the potential to meet a NSW EPA resource recovery order (RRO) exemption such as virgin excavated natural material (VENM) or excavated natural material (ENM).

If material does not meet RRO requirements, the analytical data collected during the investigation will be compared against the criteria within the NSW EPA Waste Classification Guidelines - Part 1: Classifying Waste (NSW EPA, 2014) and Addendum to the NSW EPA Waste Classification Guidelines - Part 1: Classifying Waste (2016).



#### 2.4.1 Regulatory Requirements

The remediation strategy is to limit the offsite disposal of waste and maximise the offsite beneficial reuse of materials such as metal.

Where material is required to be transported off the site and to another part of the Base for treatment or remediation, The transport and disposal of waste will be undertaken in accordance with POEO (Waste) Regulation 2014 and NSW EPA (2014) Waste Classification Guidelines, Part 1: Classifying Waste. If not using an approved, on-line tracking system the Site Contractor must also keep copies of the waste transport certificates for at least four years. The use of the EPA on-line tracking system removes the requirement to maintain these records.

Waste will be disposed of offsite at a facility licensed to receive the materials. The handling, transport, and disposal of waste will be undertaken in accordance with POEO (Waste) Regulation 2014. The principal contractor must ensure that prior notice has been given to the receiving facility before transporting the materials to the site.

Waste pertaining to the demolition of existing buildings or remediation of soils will be disposed of at a facility licensed to receive the waste. The movement of waste offsite will be tracked using material tracking to collect the following information per load:

- Reference name
- The date the materials were moved offsite
- The material classification (only relevant for soil materials)
- The name of the company undertaking the transportation and disposal
- The registration of the vehicle
- Tip dockets collected at the receiving facility
- The weight per tonne of the materials
- The name of the receiving facility (destination).

Details of the material tracking will be reconciled and included in the site validation report and are required to form part of the site audit report.



#### 3 Implementation, Monitoring and Review

#### **3.1** Roles and Responsibilities

In the event of any unexpected find, the site manager shall be notified immediately. The worker response protocol shall be undertaken as soon as reasonably practical to contain the suspected contamination and a suitability qualified consultant engaged to investigate. All appropriate preventative measures shall be implemented to avoid any potential risks that may pose environmental harm. **Table 2** details the relevant roles and responsibilities associated with the implementation of the UCFP.

Role	Responsibility
Site Owner	The site owner must ensure that the UCFP is attached as a sub-management plan to the construction environmental management plan (CEMP) and any other relevant documentation.
Site Manager	The site manager must implement all administrative and physical controls to ensure that any works being carried out on the site are as per the UCFP. The site owner must provide a copy of this UCFP to any worker or contractor who may have reason to disturb the current conditions within the site. The site manager must ensure that all workers/contractors operating within the site are aware of this UCFP and are inducted to an appropriate level of environmental and emergency procedures. The site manager must demonstrate that any workers/contractors working within the site are fully trained in the management of the risks and hazards associated with asbestos and other potential sources of contamination
Site Workers/Contractors	Site workers/contractors who undertake intrusive works at the site must review this UCFP and implement the procedures provided within this plan. It is the responsibility of all workers/contractors to raise any safety concerns or report any unexpected finds immediately to the site manager upon identification.
Environmental Consultant	It is the responsibility of the environmental consultant to ensure that any supervision and/or remediation works are undertaken as per the UCFP and CEMP. The environmental consultant must ensure that all supervision, sampling and/or investigative methodologies are completed in accordance with relevant legislation and codes of practice. The environmental consultant is responsible for reporting all findings of the subsequent investigations to the site owner or manager within a reasonable timeframe. All reporting must comply with the NSW EPA (2020) Guidelines for Consultants Reporting on Contaminated Land or as per relevant legislative requirements.
Qualified Asbestos Supervisor / Removalist	The qualified asbestos supervisor/removalist must ensure that all appropriate controls outlined within the UCFP. A suitable asbestos removal control plan (ARCP) must be developed and be specific to the removal process to appropriately manage any potential human health related risk associated with asbestos. The asbestos supervisor/removalist shall ensure that adequate asbestos controls are in place, e.g., exclusion zone, before the commencement of any disturbance works. The asbestos supervisor/removalist will act as a site controller, ensuring that all personnel entering the exclusion zone have signed onto the appropriate documentation, wear the required PPE and where practical, abide by all asbestos management protocols.
Remediation Contractor (if applicable)	The remediation contractor is responsible for performing all remediation works in accordance with an approved RWP (i.e., the projects Remediation Action Plan or RAP). The remediation contractor must ensure all relevant approvals have been obtained from relevant third parties prior to commencing work. The remediation contractor is to contain or hold the necessary qualifications or experience to perform the required task.

Table 2. Relevant Roles and Responsibilities for the implementation of the UCFP.



#### 3.2 Worker and Contractor Training

All personnel and contractors engaged in intrusive activities at the site must undergo comprehensive training to understand their roles and responsibilities as outlined within the UCFP. This training should cover environmental responsibilities and associated risks, particularly when dealing with potentially contaminated soils which may represent a salinity risk. Training requirements include:

- Site induction.
- Understanding the UCFP, including how to identify and respond to unexpected finds.
- Environmental emergency response training.
- Specific environmental training tailored to job roles.

Records of all training sessions must be maintained properly. The site manager is responsible for identifying the need for additional or updated training and ensuring its implementation. Workers should be briefed on the minimum PPE requirements for the project.

#### 3.3 Audit and Review Process

The UCFP is a dynamic document that requires periodic review and amendments to align with site changes and evolving legislative requirements, enhancing its effectiveness. It remains applicable as long as potential to uncover potential unexpected finds during the construction stage.

The site manager, along with a suitably qualified individual (e.g., environmental consultant), must conduct an UCFP review at least once every five years or in response to specific triggers, including:

- Changes in land use.
- Identification of significant environmental or health and safety issues.
- Discovery of unexpected incidents or finds.
- Completion of an environmental audit.



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- Work Health and Safety Act (2011).
- Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3<sup>rd</sup> Edition) (2017)



#### **Appendix A – Unexpected Finds Protocol**





#### Appendix B – Unexpected Finds Register

Date	Area Reference (Chainage/Co- ordinates)	Description of Unexpected Find	Assessment Methodology	How was the UXF managed?	How was the UXF disposed?	Recorded / Closed off by:





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# Appendix G Construction Flora and Fauna Management Plan

## at&

# **Construction Flora and Fauna Management Plan**

Aldington and Abbotts Road Upgrade & Mamre and Abbotts Road Intersection Upgrade

Kemps Creek



August 2024



#### Limitations on use and reliance

Aspect Environmental Pty Ltd has prepared this report solely for the use of the Client and those parties with whom a warranty / end-user agreement or licence has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Aspect Environmental Pty Ltd; a charge may be levied against such approval.

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The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client).

Should additional information become available which may affect the opinions expressed in this report, Aspect Environmental Pty Ltd reserves the right to review such information and, if warranted, to modify the opinions accordingly.

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#### **Revisions**

Revision	Date	Description	Prepared by	Approved by
Rev 01	16/05/2024	Draft issued to client	J. Highman-Smith	M. Williams
Rev 02	31/07/2024	Updated post client review of draft	J. Highman-Smith	M. Williams
Rev 03	15/08/2024	Updated to include SSD CoC and CEMP referencing	J. Highman-Smith	M. Williams



10

# Contents

 Table 5-1 CFFMP monitoring requirements

1 INTRODUCTION	1
1.1 Background	1
1.2 Project Description	1
1.3 Purpose of this Plan	2
1.4 Objectives and Targets	2
2 LEGAL AND OTHER OBLIGATIONS	5
2.1 Legislation	5
2.2 Project Consent Conditions	5
2.3 Training and Awareness	6
3 EXISTING ENVIRONMENT	7
4 IMPLEMENTATION	8
4.1 Mitigation Measures	8
5 MONITORING AND REVIEW	10
5.1 Environmental Inspections	10
5.2 Environmental Monitoring	10
5.3 Records, Compliance and Auditing	11
5.4 Contingency Management Plan	11
5.5 Non-compliances and Actions	11
5.6 Environmental Incident and Emergency Response	12
5.7 Environmental Reporting	12
5.8 CFFMP Review and Revision Program	12
Appendix A Consent Compliance Matrices	
List of Figures	
Figure 1-1 Location of road and intersection upgrades	4
List of Tables	
Table 1-1 Flora and fauna objectives and targets	2
Table 2-1 Legislative and related instruments relevant to the Project	5
I able 4-1 Flora and fauna management measures	8



#### Glossary

AARU	Aldington and Abbotts Road Upgrade
Aspect	Aspect Environmental Pty Ltd
AT&L	AT&L Australia Pty Ltd
BDAR	Biodiversity Development Assessment Report
BD Act	Biodiversity Act 2016
CEEC	Critically Endangered Ecological Community
CEMP	Construction Environmental Management Plan
CFFMP	Construction Flora and Fauna Management Plan
CoC	Condition(s) of Consent
DP	Deposited Plan
Environmental Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
ER	Environmental Representative
MAIU	Mamre and Abbotts Road Intersection Upgrade
Project, the	Road upgrades to Aldington and Abbotts Road and Mamre and Abbotts Road intersection Kemps Creek, under SSD 9138102 and SSD 10479
Site, the	Public road reserves and private land across multiple residential properties located at Abbotts and Aldington Road, Kemps Creek, NSW
SSD	State significant development



# **1 INTRODUCTION**

#### 1.1 Background

This Construction Flora and Fauna Management Plan (CFFMP) has been prepared by Aspect Environmental Pty Ltd (Aspect), on behalf of AT&L Australia Pty Ltd (AT&L), to support the development of road and intersection upgrades along Aldington Road and Abbotts Road, Kemps Creek. The works aim to upgrade Aldington Road and Abbotts Road, Mamre and Abbotts Road intersection and to provide for the development of land within the Mamre Road Precinct (the Project).

This CFFMP has been prepared with reference to:

- State significant development (SSD) consent 9138102, dated 21 April 2023
- Westlink Stage 1 Modification 5 Final Modification Report SSD 9138102, Ethos Urban 21 March 2024
- SSD consent 10479, dated 05 May 2023
- Biodiversity Development Assessment Report (BDAR), Fraser Ecological, 14 June 2024, Aldington and Abbotts Road Upgrade
- Biodiversity Development Assessment Report (BDAR), Fraser Ecological, 03 June 2024, Mamre and Abbotts Road Intersection
- Flora and Fauna Assessment Report, Narla Environmental, March 2024, Mamre Road and Abbotts Road
- Flora and Fauna Assessment Report, Narla Environmental, March 2024, Abbotts Road and Aldington Road
- Development Control Plan (DCP) Penrith, Penrith City Council, 2014
- Development Control Plan: Mamre Road Precinct Western Sydney Employment Area, NSW Department of Planning, Industry and Environment, November 2021
- State Environmental Planning Policy (SEPP) Western Sydney Aerotropolis 2020.

This CFFMP is a sub-plan of the Construction Environmental Management Plan (CEMP).

#### **1.2 Project Description**

The Project is located at Mamre, within the Penrith Local Government Area and is zoned as 'IN1 – General Industrial' under the Penrith City Planning Certificate under section 10.7(2) of the *Environmental Planning and Assessment Act 1979.* The Project forms part of the Mamre Road Precinct which sits within both the Western Sydney Employment Area and the Western Sydney Aerotropolis.

The Project site is located at Abbotts and Aldington Road, Kemps Creek, NSW and has an approximate length of 4 km (the Site). The Site comprises the existing road corridor and the frontage of the adjacent private lots including:

Mamre Road and Abbotts Road intersection



- Abbotts Road
- part of Aldington Road
- frontage of private lots adjacent to the road corridor.

Land surrounding the Site is generally rural in nature comprising a variety of rural dwellings, rural land, farm dams and scattered vegetation.

The Project involves:

- widening the road beyond the existing road reserve either side on Aldington Road, Abbotts Road and Mamre Road
- signalised intersections
- earthworks including raising and lowering the road
- stormwater including new and larger culverts under and adjacent to road
- relocation of services above and underground
- new services including water, power, communications
- site sheds, material storage as required for road construction
- temporary works as necessary to facilitate construction.

The road and intersection upgrades are being delivered under SSD 9138102 and SSD 10479.

An aerial showing the location of the works is shown on Figure 1-1.

#### 1.3 Purpose of this Plan

This CFFMP has been prepared to address the conditions of the SSD 9138102 and SSD 10479 Development Consents related to flora and fauna and to provide methods to monitor and manage potential impacts to flora and wildlife strike risk during the construction of the Project.

Construction is to be undertaken in accordance with the most recent, approved version of this CFFMP.

Roles and responsibilities for environmental management of the Project are outlined in Section 3.2 of the CEMP.

#### **1.4 Objectives and Targets**

Flora and fauna management objectives and targets have been established as a means of assessing environmental performance during construction. The objectives and targets in Table 1-1 have been developed with consideration of the key issues identified through the environmental assessment and risk assessment process.

, 3				
Objective	Target	Monitoring Method		
Enable compliance with relevant legislation, CoC, requirements and guidelines	No written warnings or infringement notices	<ul> <li>Environmental inspection checklist</li> <li>Daily logbook</li> <li>Environmental Representative (ER) monitoring, inspections and audits</li> </ul>		

#### Table 1-1 Flora and fauna objectives and targets



Objective	Target	Monitoring Method
Minimise impacts to flora and fauna during construction	No measurable impact to flora and fauna	<ul> <li>Environmental inspection checklist</li> <li>Six-monthly monitoring by suitably qualified ecologist</li> </ul>
Minimise impacts of wildlife to Western Sydney Airport operations	Minimal occurrence of common strike species at the site	<ul> <li>Environmental inspection checklist</li> <li>Six-monthly monitoring by suitably qualified ecologist</li> </ul>





Figure 1-1 Location of road and intersection upgrades

Construction Flora and Fauna Management Plan Kemps Creek



# 2 LEGAL AND OTHER OBLIGATIONS

#### 2.1 Legislation

The regulatory framework for the Project is summarised in Section 3.3.2 of the CEMP, which identifies relevant legislative instruments, including legislative and voluntary obligations, permits and licences, and their key objectives and relevance to the Project.

Relevant legislative instruments for management of flora and fauna are summarised in Table 2-1.

Legislation	Key Project Requirements	Applicability
Environment Planning and Assessment Act 1979	Establishes a system of environmental planning and assessment of proposed developments in NSW The Project must comply with SSD 9138102 and SSD 10479 Development Consents	All works
Protection of the Environment Operations Act 1997	Aims to aid the protection, restoration and enhancement of the quality of the NSW environment Identifies activities for which an Environment Protection Licence is required	Pollution incidents that have caused or give rise to material harm Discharges or emissions to air, land and water
Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)	Requirements in relation to protection and management of nationally and internationally important flora, fauna, ecological communities and heritage places.	Threatened species and ecological environments
Biodiversity Conservation Act 2016	Comply with conservation requirements for any identified threatened species.	Threatened species and ecological environments
Biosecurity Act 2015	Manages diseases and pests that may cause harm to human, animal or plant health or the environment	Priority weeds must be managed in accordance with the Act
Water Management Act 2000	This Act aims to manage the State's water resources including rivers and groundwater in a sustainable way.	As the Project intersects a mapped water course this Act applies Controlled activity approval maybe required

 Table 2-1 Legislative and related instruments relevant to the Project

Where updated or revised versions of guidelines, protocols, standards or policies, or a replacement of them are available, the most recent versions should be applicable to this CFFMP.

#### **2.2 Project Consent Conditions**

The Project is to be constructed in accordance with SSD 9138102 and SSD 10479 Development Consents. The conditions which apply to flora and fauna and where the CFFMP address them is included in Appendix A.



#### 2.3 Training and Awareness

As detailed in Section 3.4 of the CEMP, all Project personnel will be made aware of the sitespecific flora and fauna management requirements through a site induction and prestart meetings/toolbox talks prior to the commencement of construction.

All Project personnel will be suitably qualified, but individual team members may benefit from specific flora and fauna management training to help them better manage the environmental impacts of the Project, where they will be made aware of:

- flora and fauna management measures
- legislation requirements
- roles and responsibilities
- control measures
- incident management and response.

The copy of the approved version of the CFFMP is to be maintained on site during construction.

Short-term visitors to the Project site will be required to undertake a visitor's induction and be accompanied by inducted personnel.

Incident and Non-compliance Response and Handling Procedure, Section 5.5 and 5.6 of the CEMP, details the procedures that will be implemented for the:

- · classification of incidents, including pollution incidents
- handling of incidents and non-compliances
- · implementation of corrective actions
- notification of incidents including material harm pollution incidents and non-compliances to regulatory agencies
- reporting of incidents and non-compliance.

These procedures will be implemented for any incidents and non-compliances related to waste management during construction of the Project.



# **3 EXISTING ENVIRONMENT**

Fraser Ecological completed two BDAR's for the Project:

- Biodiversity Development Assessment Report (BDAR), Fraser Ecological, June 2024, Aldington and Abbots Road Upgrade
- Biodiversity Development Assessment Report (BDAR), Fraser Ecological, June 2024, Mamre and Abbotts Road Intersection.

The BDARs were prepared in accordance with the Office of Environment and Heritage (OEH) (2020) Biodiversity Assessment Method. In addition to field validated surveys, the assessment reports also incorporated the findings of the two Flora and Fauna Assessments completed by Narla Environmental (March, 2024).

The following vegetation (located outside of Certified-urban Capable Land) within the Project Area would be impacted by the Project:

- 0.21 hectares (ha) of Cumberland Shale Plains Woodland that conforms to the *Biodiversity Act* 2016 (BC Act) listed Cumberland Plain Woodland in the Sydney Basin Bioregion Critically Endangered Ecological Community (CEEC)
- 0.06 ha of derived grassland Cumberland Shale Plains Woodland that conforms to the BC Act listed Cumberland Plain Woodland in the Sydney Basin Bioregion CEEC
- 7.42 ha of exotic vegetation.

Due to the poor condition of the Cumberland Shale Plains Woodland vegetation and the relatively small area of impact the Project, no retirement of ecosystem credits is required.

No threatened plant species were recorded on the Project site.

Four dams are located within the Project Site. All are located on 'Certified Urban Capable Land' and did not require assessment under the BDARs.

It was determined that there is no potential for significant impact upon any of the potentially occurring EPBC Act listed threatened species. Therefore, no assessment under the Significant Impact Guidelines for Matters of National Environmental Significance was required.

It was deemed that the Project is unlikely to result in a significant impact such that a local viable population or occurrence of any of the threatened fauna species would be placed at risk of extinction.



# **4 IMPLEMENTATION**

#### **4.1 Mitigation Measures**

The measures for the management of flora and fauna during the construction of the Project are detailed in Table 4-1.

These are inclusive of the measures recommended in the BDAR for the Mamre and Abbotts Road Intersection prepared by Fraser Ecological dated 03 June 2024.

ID	Management Measure	Responsibility	Timing
FF 1	Commission the services of a qualified and experienced Ecologist. The Ecologist must be licensed with a current Department of Primary Industries Animal Research Authority permit and New South Wales Scientific Licence issued under the BC Act.	Construction Contractor/ Ecologist	Prior to construction
	The Ecologist is to:		
	<ul> <li>Undertake any required targeted searches for threatened flora prior to vegetation clearing</li> </ul>		
	<ul> <li>Undertake an extensive pre-clearing survey which includes targeted searches for threatened fauna, threatened flora and priority weeds, and delineate habitat-bearing trees and shrubs</li> </ul>		
	<ul> <li>Undertake an additional targeted survey for the threatened Cumberland Land Snail</li> </ul>		
	<ul> <li>Undertake a pre-clearing survey which includes targeted searches for threatened fauna (including potential <i>Litoria aurea</i> [Green and Golden Bell Frog] within the four dams prior to dam removal)</li> </ul>		
	<ul> <li>Supervise the clearing/modification of any aquatic habitat including creeks or dams to capture, treat and/or relocate any displaced fauna.</li> </ul>		
FF 2	Tree protection fencing is to be installed around all trees proposed for retention in the immediate vicinity of the Project.	Construction Contractor / Arborist	Prior to construction
FF 3	Temporary barriers e.g. flagging tape are to be erected around retained native vegetation that may incur indirect impacts on biodiversity values due to the construction works.	Construction Contractor	Prior to construction
FF 4	Appropriate erosion and sediment control must be installed and maintained during construction to avoid the potential of incurring indirect impacts on biodiversity values. An Erosion and Sediment Control Plan is to be developed to the Soils and Construction Managing Urban Stormwater Standards (Landcom 2004).	Construction Contractor	Prior to and during construction
FF 5	Implement hygiene protocols to minimise the spread of weeds or pathogens between infected areas and uninfected areas. Vehicles, machinery and building refuse should remain only within the Project site. Washdown protocols for vehicles should be observed to prevent the entry of soil borne pathogens.	Construction Contractor	Prior to and during all clearing works
FF 6	Building refuse to be disposed of at an appropriate waste management facility in accordance with measures outlined in the Construction Waste Management Plan.	Construction Contractor	Construction
FF 7	Any roadside revegetation/landscape works are to utilise tree species representative of the Cumberland Plain Woodland.	Construction Contractor	Construction


ID	Management Measure	Responsibility	Timing
FF 8	<ul> <li>Manage pest, vermin, and declared priority weeds on the site.</li> <li>The following priority weeds were identified within the Project site: <ul> <li>Lantana camara (Lantana)</li> <li>Lycium ferocissimum (African Boxthorn)</li> <li>Olea europaea subsp. cuspidata (African Olive)</li> <li>Opuntia stricta (Common Prickly Pear)</li> <li>Rubus fruticosus species aggregata (Blackberry)</li> <li>Senecio madagascariensis (Fireweed).</li> </ul> </li> <li>All priority weeds are to be removed in accordance with the Biosecurity Act 2015 and NSW WeedWise (DPI 2023).</li> <li>Environmental weeds should be managed with best practice techniques to improve the condition of the native vegetation within the Project site.</li> </ul>	Construction Contractor	Construction
FF 9	Allocate all storage, stockpile, and laydown sites away from any native vegetation that is planned to be retained. Avoid importing any soil from outside the site as this can introduce weeds and pathogens to the site.	Construction Contractor	Construction



# **5 MONITORING AND REVIEW**

## **5.1 Environmental Inspections**

Regular site inspections will be undertaken as described in Section 5.1 of the CEMP. Inspections are to be completed by the Construction Contractor to:

- verify compliance with CoC
- determine conformance with the measures detailed within this CFFMP
- review the effectiveness of flora and fauna management controls
- document observation and track performance.

Site inspection checklists and logs are to be documented by the Construction Contractor and provided to the Environmental Representative (upon request). Any corrective actions undertaken are to be documented and maintained onsite.

## **5.2 Environmental Monitoring**

As described in Section 5.2 of the CEMP, monitoring will be undertaken to evaluate the effectiveness of the implementation of this CFFP, and to address any legal and compliance requirements. The ER will be advised of any construction phase non-compliance from monitoring, and details reported in accordance with the environmental incident reporting process.

Where a non-compliance is detected or monitoring results are outside of the expected range and are directly attributable to the Project (influenced by factors under the direct control of the Project), the process described in Section 5.5 of the CEMP will be implemented.

Monitoring required for this CFFMP is summarised in Table 5-1.

Monitoring	Timing	Responsibility	CoC Reference
Inspect Project site (focused on cleared areas) for the establishment of priority weeds and weeds of national significance.	Monthly	Construction Contractor	SSD 9138102 CoC B96 SSD 10479 CoC D92
Inspect entire site to determine vermin and pest species are not present in sufficient numbers to pose an environmental hazard or cause the loss of amenity in the surrounding area.	Monthly	Construction Contractor	SSD 9138102 CoC B96 SSD 10479 CoC D92
Inspect security (bins lids closed and secured, waste store wholly with the receptacle) of waste storage areas, particularly relating to putrescible waste items.	Daily	Construction Contractor	SSD 9138102 CoC B94 SSD 10479 CoC D90
Inspect site for general housekeeping relating to improper disposal of food stuffs and packaging.	Weekly	Construction Contractor	SSD 9138102 CoC B94 SSD 10479 CoC D90

#### Table 5-1 CFFMP monitoring requirements



Monitoring	Timing	Responsibility	CoC Reference
Inspection of sediment control measures (sediment fencing) to ensure all measures are intact and functioning properly, to avoid indirect impacts on adjoining vegetated areas.	Weekly, prior to and soon as practical following rainfall. Monthly CPESC inspections	Construction Contractor CPESC	SSD 9138102 CoC B23 SSD 10479 CoC D25

## 5.3 Records, Compliance and Auditing

All Project documentation related to environmental management, including flora and fauna management records, are to be maintained as described in Section 5.3 of the CEMP.

Environmental auditing is described in Section 5.3 of the CEMP. The Project will undertake an internal Health, Safety, Security and Environment audit of the Project annually. Audits will involve a review of all environmental documents, records and reports to verify compliance with the CEMP and this CFFMP. In addition, the ER may at any time request documents and evidence confirming implementation of the CEMP and sub-Plans.

Key environmental and procedural aspects to be covered by the audit may include:

- environmental mitigation measures detailed in this CFFMP
- adherence to reporting procedures
- complaint and incident management
- legislative requirements.

Records of auditing and reporting will be maintained to demonstrate compliance.

## **5.4 Contingency Management Plan**

If inspections, monitoring and/or auditing indicate that the mitigation measures listed in this CFFMP are not effective in managing environmental impacts, the flora and fauna mitigation measures detailed in the Contingency Management Plan are to be implemented. The Contingency Management Plan is included as Appendix O of the CEMP.

These responses manage any unpredicted impacts and their consequences. The Contingency Management Plan would check that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible.

## **5.5 Non-compliances and Actions**

Section 5.5 of the CEMP details the Project team's response following the identification of a noncompliance with the CoC, the CEMP and sub-plans. This includes the reporting, investigation and notification of non-compliances. Non-compliances with this CFFMP will be addressed as required by the CEMP.



## **5.6 Environmental Incident and Emergency Response**

Section 5.6 of the CEMP details environmental incidents and the response to environmental emergencies for the Project. This includes the reporting, notification and investigation of environmental incidents. Emergency contact details are also provided.

In the event of an environmental incident or emergency related to the implementation of this CFFMP, the responses detailed in the CEMP will be implemented.

## **5.7 Environmental Reporting**

Environmental reporting for the Project is described in Section 5.7 of the CEMP.

## **5.8 CFFMP Review and Revision Program**

As described in Section 5.8 of the CEMP, the Project will annually review the adequacy of the environmental mitigation measures within the CEMP and sub-plans (including this CFFMP), as well as the effectiveness of their implementation to determine whether they are still applicable to the activities being carried out onsite. This review will be undertaken by the Construction Contractor, in consultation with the Project Manager.

All employees and contractors will be informed of any revisions to the CFFMP during toolbox talks.



# Appendix A Consent Compliance Matrices

Instrument		CFFMP Section
SSD 9138	102	
C1	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:	This Plan
(a)	detailed baseline data;	Section 3
(b)	details of: the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures and criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Section 2
(c)	a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 4
(d)	a program to monitor and report on the: impacts and environmental performance of the development; and effectiveness of the management measures set out pursuant to paragraph (c) above;	Section 5.1
(e)	a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Section 5.4
(f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	Section 5.8
(g)	a protocol for managing and reporting any: incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); complaint; failure to comply with statutory requirements; and	Section 5.5 and 5.6
(h)	a protocol for periodic review of the plan.	Section 5.8
Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for management plans		Noted
D25 (f)	Prior to the commencement of the External Road Works, the Applicant must prepare a Construction Environmental Management Plan (CEMP) for the External Road Works in accordance with the requirements of Condition C1 and to the satisfaction of the Planning Secretary. The CEMP must include the following: mitigation measures recommended in the Biodiversity Development Assessment Report for the Mamre and Abbotts Road Intersection prepared by Fraser Ecological and dated 3 June 2024;	Section 4.1
	1	



Instrument		CFFMP Section
SSD 1047	9	
D74	Prior to, and during, construction works the Applicant must implement the mitigation measures recommended in Table 27 of the Biodiversity Development Assessment Report prepared by Eco Logical Australia Pty Ltd, dated 22 June 2022.	Section 4
D78	The Applicant must protect retained vegetation on site with fencing to avoid impacts during construction and operation of the development.	Section 4
C1	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include:	Section 5.1
(a)	detailed baseline data;	Section 5.4
(b)	details of: the relevant statutory requirements (including any relevant approval, licence or lease conditions); any relevant limits or performance measures and criteria; and the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;	Section 5.8
(c)	a description of the measures to be implemented to comply with the relevant statutory requirements, limits, or performance measures and criteria;	Section 4.1
(d)	a program to monitor and report on the: impacts and environmental performance of the Stage 1 development; and effectiveness of the management measures set out pursuant to paragraph (c) above;	Section 5.8
(e)	a contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly as possible;	Section 5.4
(f)	a program to investigate and implement ways to improve the environmental performance of the Stage 1 development over time;	Section 5.8
(g)	a protocol for managing and reporting any: incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria); complaint; failure to comply with statutory requirements; and	Section 5.5 and 5.6
(h)	a protocol for periodic review of the plan.	Section 5.8
Note: The Planning Secretary may waive some of these requirements if they are unnecessary or unwarranted for management plans		

# Appendix H Dam Decommissioning Management Plan



# Dam Decommissioning Management Plan

Aldington and Abbotts Road Upgrade & Mamre and Abbotts Road Intersection Upgrade

Kemps Creek



October 2024



## Limitations on use and reliance

Aspect Environmental Pty Ltd has prepared this report solely for the use of the Client and those parties with whom a warranty / end-user agreement or licence has been executed, or with whom an assignment has been agreed. Should any third party wish to use or rely upon the contents of the report, written approval must be sought from Aspect Environmental Pty Ltd; a charge may be levied against such approval.

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The work undertaken to provide the basis of this report comprised a study of available documented information from a variety of sources (including the Client).

Should additional information become available which may affect the opinions expressed in this report, Aspect Environmental Pty Ltd reserves the right to review such information and, if warranted, to modify the opinions accordingly.

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### **Revisions**

Revision	Date	Description	Prepared by	Approved by
Rev 01	14/05/2024	Draft issued to client for review	J. Highman-Smith	M. Williams
Rev 02	07/08/2024	Updated post client review of draft	J. Highman-Smith	M. Williams
Rev 03	12/08/2024	Updated to include SSD CoC and CEMP referencing	J. Highman-Smith	M. Williams
Rev 04	10/10/2024	Updated to include client and ER comments	M. Williams	M. Williams



# Contents

1 INTRODUCTION	5
1.1 Background	5
1.2 Project Description	5
1.3 Purpose of this Plan	6
2 SITE DESCRIPTION	8
2.1 General	8
2.2 Topography	8
2.3 Geology and Soils	8
2.4 Hydrology and Hydrogeology	8
3 LEGAL AND OTHER REQUIREMENTS	10
3.1 Legislation	10
3.2 Water Quality Assessment Guidelines	10
3.3 Project Consent Conditions	11
4 DAM DECOMMISSIONING STRATEGY	12
4.1 Background	12
4.2 Dam Water Analysis	12
4.2.1 Dam Water Quality	12
4.2.2 Dam Water Volume	15
4.3 Ecological Clearance	15
4.4 Water Reuse Options	16
4.5 Removal of Dam Structures	16
4.5.1 Dam Embankment Soils	16
4.5.2 Dam Sediments	17
4.5.3 Dam Voids	17

Appendix A Consent Compliance Matrices

## **List of Figures**

Figure 1-1 Location of road and intersection upgrades	7
Figure 4-1 Location of three farm dams to be decommissioned	13
Figure 4-2 Location of one farm dam within the construction boundary to be	
decommissioned	14

## **List of Tables**

Table 3-1 Legislative and related instruments relevant to the Project	10
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**Table 4-1** Onsite water reuse options**Table 4-2** Options for the infill of dam voids

16 17



## Glossary

AARU	Aldington and Abbotts Road Upgrade
Aspect	Aspect Environmental Pty Ltd
AT&L	AT&L Australia Pty Ltd
CEMP	Construction Environmental Management Plan
CoC	Condition(s) of Consent
DDMP	Dam Decommissioning Management Plan
DP	Deposited Plan
ENM	Excavated natural material
Environmental Incident	An occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance.
ER	Environmental Representative
MAIU	Mamre and Abbotts Road Intersection Upgrade
NHMRC	National Health and Medical Research Council
NEPM	National Environmental Protection Measure
NSW EPA	NSW Environment Protection Agency
POEO Act	Protection of the Environment Operations Act 1997
Project, the	Road upgrades to Aldington and Abbotts Road and Mamre and Abbotts Road intersection Kemps Creek, under SSD 9138102 and SSD 10479
Site, the	Public road reserves and private land across multiple residential properties located at Abbotts and Aldington Road, Kemps Creek, NSW
SSD	State significant development
VENM	Virgin excavated natural material



# **1 INTRODUCTION**

## 1.1 Background

This Dam Decommissioning Management Plan (DDMP) has been prepared by Aspect Environmental Pty Ltd (Aspect) on behalf of AT&L Australia Pty Ltd (AT&L), to support the development of road and intersection upgrades along Aldington Road and Abbotts Road, Kemps Creek. The works aim to upgrade Aldington Road and Abbotts Road, Mamre and Abbotts Road intersection and to provide for the development of land within the Mamre Road Precinct (the Project).

This DDMP has been prepared with reference to:

- State significant development (SSD) consent 9138102, dated 21 April 2023
- Westlink Stage 1 Modification 5 Final Modification Report (SSD 9138102) (Ethos Urban 21 March 2024)
- SSD consent 10479, dated 5 May 2023
- Development Control Plan (DCP) Penrith, Penrith City Council, 2014
- Development Control Plan: Mamre Road Precinct Western Sydney Employment Area, NSW Department of Planning, Industry and Environment, November 2021
- State Environmental Planning Policy (SEPP) Western Sydney Aerotropolis 2020.

This DDMP is a sub-plan of the Construction Environmental Management Plan (CEMP).

## **1.2 Project Description**

The Project is located at Mamre, within the Penrith Local Government Area and is zoned as 'IN1 – General Industrial' under the Penrith City Planning Certificate under section 10.7(2) of the *Environmental Planning and Assessment Act 1979.* The Project forms part of the Mamre Road Precinct which sits within both the Western Sydney Employment Area and the Western Sydney Aerotropolis.

The Project site is located at Abbotts and Aldington Road, Kemps Creek, NSW and has an approximate length of 4 km (the Site). The Site comprises the existing road corridor and the frontage of the adjacent private lots including:

- Mamre Road and Abbotts Road intersection
- Abbotts Road
- part of Aldington Road
- frontage of private lots adjacent to the road corridor.

Land surrounding the Site is generally rural in nature comprising a variety of rural dwellings, rural land, farm dams and scattered vegetation.

The Project involves:

 widening the road beyond the existing road reserve either side on Aldington Road, Abbotts Road and Mamre Road



- signalised intersections
- · earthworks including raising and lowering the road
- stormwater including new and larger culverts under and adjacent to road
- relocation of services above and underground
- new services including water, power, communications
- site sheds, material storage as required for road construction
- temporary works as necessary to facilitate construction.

The road and intersection upgrades are being delivered under SSD 9138102 and SSD 10479. An aerial showing the location of the works is shown on Figure 1-1.

## 1.3 Purpose of this Plan

This DDMP has been prepared to address the conditions of the SSD 9138102 and SSD 10479 Development Consents related to dam decommissioning. The purpose of this DDMP is to set out the environmental processes for managing the decommissioning of the four farm dams during the construction phase of the Project.

Construction is to be undertaken in accordance with the most recent, approved version of this DDMP.

Roles and responsibilities for environmental management of the Project are outlined in Section 3.2 of the CEMP.





#### Figure 1-1 Location of road and intersection upgrades



# **2 SITE DESCRIPTION**

## 2.1 General

The Project is located on gently undulating terrain within a rural setting, in the Penrith Local Government Area and is approximately 38km west of the Sydney central business district and approximately 5km north-east of the Western Sydney Airport, which is currently under construction.

## 2.2 Topography

The Project has a moderate to steep sloping surface ranging from 44-74m Australian Height Datum (ADE, 2024, *Abbotts Road and Aldington Road Upgrade*). The lowest point on-site is in the south-western portion of the Site, with the highest point found at the northern part of the Site. As such, the Site is considered to have a moderate to steep gradient towards the south-west."

## 2.3 Geology and Soils

The site is a mixture of Luddenham soils and potentially Blacktown soils. Section 1 is a mixture of both soils whilst Section 2 has only Blacktown soils. These soils are described in the Soil Landscapes of the Penrith 1:100,000 sheets (Bannerman and Hazelton 2011).

The Luddenham landscape is characterised by undulating to rolling hills underlain by Wianamatta Group Ashfield Shale and Bringelly Shale formations, with local relief 50-80m and slopes 5-20%. The Ashfield Shale consists of laminite and dark grey shale. Bringelly Shale consists of shale, calcareous claystone, and laminite. Between these two shale members is the Minchinbury Sandstone consisting of fine to medium-grained lithic quartz sandstone. Soils are shallow (<100cm) consisting of dark Podzolic Soils or massive Earthy Clays on crests, moderately deep (70-150cm) Red Podzolic Soils on upper slopes and moderately deep (<150cm) Yellow Podzolic Soils on lower slopes and drainage lines. These soils are typically moderately reactive, with a high soil erosion hazard, and localised impermeable highly plastic subsoil.

The Blacktown soil landscape is characterised by gently undulating rises on Wianamatta Group shales, with local relief to 30m and slopes usually >5%. The geology consists of Wianamatta Group—Ashfield Shale comprising of laminite and dark grey siltstone, Bringelly Shale which consists of shale with occasional calcareous claystone, laminite and infrequent coal, and Minchinbury Sandstone consisting of fine to medium-grained quartz lithic sandstone.

## 2.4 Hydrology and Hydrogeology

There is no surface water body on site. The closest surface water body is a portion of Kemps Creek located approximately 350m west of the Site.

The MAIU works area contains two 1st order watercourses and one 2nd order watercourse along with their associated riparian buffer zones (Figure 4-1). Two mapped hydro areas (dams) also overlap with the Project Area.

The AARU works area has one 2nd order watercourse, along with its associated 20 m riparian buffer zone. This watercourse was in low condition, with the only habitat present being a degraded



culvert and exotic vegetation around a soak. One mapped hydro area (dam) was also identified shown in Figure 4-2.

Most of the Project Site is not sealed, with exposed soils and landscaping areas within the residential premises on the eastern and western boundaries of the site. In these areas, surface water is presumed to infiltrate into the sub-soil profile. Groundwater is expected to emulate the Site topography and proceed relatively slowly (due to the low hydraulic gradient characteristic of the underlying clays) in an easterly direction towards Parramatta River.



# 3 LEGAL AND OTHER REQUIREMENTS

## **3.1 Legislation**

Water NSW is responsible for managing dam safety for all dams across NSW, including the decommissioning of farm dams.

The Project is to be constructed in accordance with applicable legislative instruments, permits, licences and guidelines as required. The instruments relevant to the management of the dam decommissioning across the Project are outlined in Table 3-1.

Instrument	Key Project Requirements	Applicability
Environment Planning and Assessment Act 1979	Establishes a system of environmental planning and assessment of proposed developments in NSW. The Project must comply with the requirements of SSD 9138102 and SSD 10479 Development Consents	All works
Protection of the Environment Operations Act 1997 (POEO Act)	Part 5.4 of the POEO Act requires operators to: (a) maintain plant in an efficient condition, or (b) operate plant in a proper and efficient manner. The Act also creates obligations for dealing with raw materials and emissions of particulates and odours which cause air pollution outside the premises.	Dam decommissioning/ earthworks Materials management Stockpile management Operation and maintenance of plant and equipment
Water Act 1912	This Act governs water licences.	Dam dewatering and decommissioning activities
Water Management Act 2000	This Act aims to manage the State's water resources including rivers and groundwater in a sustainable way.	Dam dewatering and decommissioning activities
Commonwealth Environmental Protection and Biodiversity Conservation Act 1999	This Act promotes the protection of threatened ecological communities.	Possible threatened communities under the EPBC Act in the Project area that do not meet the minimum condition thresholds for EPBC listing

Table 3-1 Legislative and related instruments relevant to the Project

Where updated or revised versions of guidelines, protocols, standards or policies, or a replacement of them are available, the most recent versions should be applicable to this DDMP.

## **3.2 Water Quality Assessment Guidelines**

The dam water quality is to be screened against the following guidelines as part of the dewatering and decommissioning process:



- Australian and New Zealand Guidelines for Fresh Water Quality (ANZG, 2018) 95% species protection guidelines
- Guidelines for Managing Risks in Recreational Water (NHMRC, 2008) Primary contact recreation guidelines.

In addition, the following criteria are consistent with industry best practice and are to be used immediately before and during dewatering to determine suitability for onsite re-use or discharge:

- pH between 6.5 and 8.5
- total suspended solids < 50 mg/L</li>
- no visible oil and grease.

The dam sediment and embankment soil is to be screened against the following National Environmental Protection Measure (NEPM) guidelines to determine the on site reuse or off site disposal process:

- NEPM Guideline on Investigation Levels for Soil and Groundwater (2013) Health investigation levels for soils contaminants for commercial/industrial sites (HIL-D)
- NEPM Guideline on Investigation Levels for Soil and Groundwater (2013) Health screening levels commercial/industrial sites (HSL-D).

## **3.3 Project Consent Conditions**

The Project is to be constructed in accordance with SSD 9138102 and SSD 10479 Development Consents. The conditions which apply to dam decommissioning and where they have been addressed are identified in Appendix A.



# 4 DAM DECOMMISSIONING STRATEGY

The decommissioning of the dams is to align with the progression of earthworks on site. The timing of the earthworks and seasonal weather conditions can influence the water levels of the dams, and this is to be taken into consideration when sequencing the decommissioning activities.

The recommended procedure for the decommissioning of the existing farm dams is summarised in the following sections. The dam decommissioning process is to be completed under appropriate supervision. Supervision is to include the implementation of a permit system whereby the Project Manager approves dam dewatering and use or discharge of water, including the adequacy of downstream controls.

## 4.1 Background

The four farm dams to be decommissioned as part of the Project are shown in Figure 4-1 and Figure 4-2. All four dams are located on private property adjacent to existing roads. They have generally been formed with earthen embankments and are fed by rainfall runoff.

Three of the dams are located adjacent to Aldington Road and are to be managed under SSD 10479. Parts of these three dams are located outside the construction boundary (Figure 4-1). Condition D37 of SSD 10479 Development consent allows for the decommissioning and removal of these dams as part of the construction works.

The fourth dam is adjacent to Mamre Road, north of the intersection with Abbotts Road (Figure 4-2). This dam is located entirely within the construction boundary.

## 4.2 Dam Water Analysis

Management of the dam waters requires an understanding of the water quality and approximate water volumes to assess reuse or disposal options. On site reuse is the preferred option and is discussed in Section 4.4.

### 4.2.1 Dam Water Quality

Water quality sampling of the dam water is required prior to dewatering to determine if the water is suitable for onsite reuse. The water quality is to be assessed against the relevant guidelines in Section 3.2 for the proposed reuse of the water. The number of water quality samples for analysis is to be determined by a suitably qualified specialist.

The specialist is to determine whether there is stratification within the dam. Stratification is the formation of layers of water with different properties (parameters) – oxygenation, density, temperature, pH and salinity.





Figure 4-1 Location of three farm dams to be decommissioned





Figure 4-2 Location of one farm dam within the construction boundary to be decommissioned



#### Stratification

To determine stratification, in-situ testing (utilising a multi-meter) across the surface area of the dam is carried out at approximately one location every  $5m^2$  of water surface. This can vary based on dam characteristics such as size, depth and gradient.

At each testing location water quality measurements are recoded at the surface using the multimeter. The multi-meter electrodes are then lowered slowly to the bottom of the dam. Whilst lowering the electrodes, if there are changes in parameters noted (5-10%), stratification might be occurring. If stratification of the dam is suspected, record the multi-meter measurements and take a water sample at the depth for comparison to the surface water sample.

Note: Stratification can result in different water quality from one layer to the next. This is more likely to occur in warmer months and in deeper dams. There may also be biological influences on water quality including algal blooms.

#### **Visual Indicators**

There may be other visual indicators of poor health of dam waters including cloudy or murky (green colour), decaying plants, organic acid sheen or algal blooms. If these indicators are observed, stratification of the dam must be determined.

#### **No Stratification**

Where it is determined that no stratification is occurring across the dam, one surface sample is required per dam.

During the dewatering process, it is recommended that the water is drawn from as close to the surface as possible to avoid turbid water on the bottom of the dam. To maintain water quality, filter through a screen on the pump inlet (or similar), to remove solids and debris.

### 4.2.2 Dam Water Volume

An estimate of the volume of water in each dam is needed to quantify the volume of water that requires management across the Project as part of the decommissioning process. The total volume of the dam water influences the reuse or disposal options. Where the total volume of dam water exceeds the reasonable reuse rate on site, then alternate storage or disposal may be required.

The NSW Office of Water (2010) has provided a methodology of estimating dam capacity. The following formula allows the capacity of each dam to be calculated:

• Volume (m<sup>3</sup>) = 0.4 x surface area (m<sup>2</sup>) x maximum depth (m)

The maximum depth of a dam can be obtained by taking a measurement from the centre of the dam using a graduated staff or a weighted rope lowered from a kayak or canoe. In the case of larger dams, multiple measurements may be required to attain an accurate depth.

The surface area of the dam can be obtained using up-to date aerial photography and confirmed by site inspection.

## 4.3 Ecological Clearance

Prior to dam dewatering and removal of dam structures, a suitably qualified ecologist is to inspect the dam to identify the presence or likely presence of aquatic species of flora and fauna.



The ecologist is to determine whether the dam water is suitable for the proposed water reuse option and whether additional actions are required prior to or during the dam dewatering process e.g. relocation of native aquatic species or destruction and disposal of weed or pest species.

The ecologist is to be on site to anaesthetise any fish remaining in the dam after the dewatering process.

## 4.4 Water Reuse Options

The reuse of dam water on site is the preferred approach. Discharging water offsite to the environment is a high-risk activity. The water reuse options are outlined in Table 4-1.

Reuse Option	Description	
Dust suppression	Water pumped from the dams can be used as dust suppression on site during earthworks and construction. This can either be via a water cart or directly from the dam via a sprinkler system or similar.	
On site irrigation	tion Water pumped from the dams can be used for irrigation purposes where construction sequencing permits.	
Vehicle wheel wash	Water pumped from dams can be used to maintain a wheel wash facility or to spray down trucks as they leave the site to reduce the tracking of mud and dirt off site.	
Topping up neighbouring dams	Water pumped from the onsite dams can be pumped to dams on neighbouring properties, subject to the landowner's approval and the water quality meeting the Australian and New Zealand Guidelines for Fresh Water Quality 95% species protection.	
Discharge to an onsite sediment basin	As a contingency, if there is excess dam water, water to be flocculated, and water quality would be monitored. If the water quality meets the Australian and New Zealand Guidelines for Fresh Water Quality 95% species protection the water can be discharged off site or to an onsite sediment basin.	

Table 4-1 Onsite water reuse options

The multiple reuse options are to be considered throughout the decommissioning process based on the progression of earthworks, seasonal conditions and the Project requirements.

## 4.5 Removal of Dam Structures

After dewatering each dam, the dam void is to be bunded to direct rainfall run-off around the dam and into a drainage line, directing surface water in accordance with the site erosion and sediment control plan avoiding down gradient construction areas. Bunding is to be constructed in accordance with Managing Urban Stormwater: Soils and Construction (known as the 'Blue Book', Landcom 2004).

Following ecological clearance from a suitably qualified ecologist, the dam structure can be removed and back filled. Any soil and sediments to be excavated and removed would be sampled and classified in accordance with the NSW Environment Protection Agency (EPA) Waste Classification Guidelines (2014) to guide disposal options and assess if soils are suitable for onsite reuse. The preferred approach would be to use any embankment soils to partially infill the dam voids.

## 4.5.1 Dam Embankment Soils

It is likely that, where present, dam embankment soils would have been sourced locally (if not from the immediate vicinity) pushed up from the void during the construction of the dam, and therefore,



would be compatible with the other soils on site. Where suitable and in accordance with the NSW Environment Protection Agency (EPA) Waste Classification Guidelines (2014) and the requirements of the Construction Waste Management Plan, embankment soils are to be reused on site to fill the dam voids following dewatering.

If the embankment soils fail to meet the relevant reuse guideline criteria, they would be classified under the NSW EPA Waste Classification Guidelines (2014) and disposed of to an appropriately licensed facility in accordance with Section 3.6 of the Construction Waste Management Plan.

### 4.5.2 Dam Sediments

It is anticipated that the sediments excavated from the dams would be saturated and the excess water would need to be removed. This is to be completed by spreading the saturated sediments out, either in the dam void or adjacent to the dam. Where possible, the sediments are to be located so that any runoff re-enters the excavated dam. This is to reduce the potential for the spread of any contamination at the Project site.

Once dry, the sediment is to be sampled against the relevant guidelines and if suitable, blended with embankment soils to be reused as fill material.

If the sediments fail to meet the relevant guideline criteria, they would be classified under the NSW EPA Waste Classification Guidelines (2014) and disposed of to an appropriately licensed facility.

### 4.5.3 Dam Voids

Following dewatering, the dam voids are to be infilled and any embankments and sediments removed in accordance with the options detailed in Table 4-2.

#### Table 4-2 Options for the infill of dam voids

Option	Description
Use of dam embankment soils and sediments	If the dam embankment soils and/or sediments meet the criteria for reuse on site, they can be reused in the dam voids as fill material.
Other material generated by excavation works on site – Virgin Excavated Natural Material (VENM) and/or Excavated Natural Material (ENM)	If the dam embankment soils and/or sediments are unsuitable for reuse, or insufficient in volume, then other material generated by excavation works on site can be used to infill the voids.

The voids would be infilled and integrated into the earthworks specification for the entire site.



# Appendix A Consent Compliance Matrices

CoC	Instrument	DDMP Section			
SSD	9138102				
B36	Prior to commencement of construction of the development, the Applicant must prepare a Dam Decommissioning Strategy to the satisfaction of the Planning Secretary. The Dam Decommissioning Strategy must form part of the CEMP required by condition C2. The Applicant must implement the most recent version of the Dam Decommissioning Strategy for the duration of construction.	This Plan			
SSD	SSD 10479				
D37	Prior to commencement of construction of the Stage 1 Development, the Applicant must prepare a Dam Decommissioning Strategy to the satisfaction of the Planning Secretary. The Dam Decommissioning Strategy must form part of the CEMP required by condition E2. The Applicant must implement the most recent version of the Dam Decommissioning Strategy for the duration of construction.	This Plan			

# Appendix I Heritage Management Plan (Unexpected Finds)



Aldington and Abbotts Road, and Mamre and Abbotts Road Intersection Upgrades, Kemps Creek Heritage Management Plan

Eda

FINAL REPORT

n Edge

Prepared for AT&L

22 November 2024

Aldington & Abbotts Road, and Mamre & Abbotts Road Intersection Upgrade | Heritage Management Plan | 22 November 2024



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• Alex Lohrisch: AT&L.



We pay our respects to the Traditional Custodians and Elders past and present and honour their connection to Country and ongoing contribution to society.



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# Abbreviations

ACHA	Aboriginal cultural heritage assessment
AHIMS	Aboriginal Heritage Information Management System
AHIP	Aboriginal Heritage Impact Permit
CEMP	Construction Environmental Management Plan
Cth DCCEEW	Australian Commonwealth Department of Climate Change, Energy, the Environment and Water
DP	Deposited Plan
DPI	Department of Primary Industries
NSW DCCEEW	NSW Department of Climate Change, Energy, the Environment and Water
EP&A Act	Environmental Planning and Assessment Act 1979
EPBC Act	Environmental Protection and Biodiversity Conservation Act 1999
Heritage NSW	Heritage NSW, NSW Department of Climate Change, Energy, the Environment and Water
ННА	Historic Heritage Assessment
НМР	Heritage Management Plan
ICOMOS	International Council on Monuments and Sites
NPW Act	National Parks and Wildlife Act 1974
RAP	Registered Aboriginal Party
SEPP	State Environmental Planning Policy
study area	Defined as Aldington Road, Abbotts Road, and the intersection of Mamre Road and Abbotts Road in Kemps Creek, NSW
SoHI	Statement of Heritage Impact
the Code	The Code of Practice for Archaeological Investigation of Aboriginal Objects in NSW (DECCW 2010a)
WHS	Work Health and Safety



## Contents

Abbr	eviatio	ons	ii
Conte	ents		iii
1	Intro	duction	1
	1.1	Project background	1
	1.2	Study area	1
	1.3	Project works	2
	1.4	Purpose and objectives	2
	1.5	Heritage Management Plan conditions	3
	16	Contributors	כ ר
2	Envir	onmental requirements	3
2	2 1	Pelevant legislation and guidelines	12
	2.1	Commitment to sultural baritage process stion	12
	2.2		. 12
		2.2.1 Tangible Aboriginal cultural heritage	.13
		2.2.2 Intangible Aboriginal cultural heritage	. 13 12
		2.2.5 Statutory	.13
3	Existi	ng environment	.15
	3.1	Aboriginal cultural heritage	.15
	3.2	Non-Aboriginal heritage	16
л	Envir	onmental aspects and impacts	18
T	<b>L I I</b>	Aboriginal boritage impacts	10
	4.1	Non Aboriginal heritage impacts	10
2	4.2		. 10
5	Envir	onmental mitigation measures	.20
	5.1	Operational related measures	.20
	5.2	Heritage protection management strategies	.20
		5.2.1 Strategy 1: Heritage inductions for all employees, contractors and sub-contractors	
		working in the study area	.20
		5.2.2 Strategy 2: Community collection of AHIMS 45-5-5692/Aldington Road IF01	.21
		5.2.3 Strategy 3: Procedure to follow in the event of unexpected Aboriginal finds	.21
		5.2.4 Strategy 4: Procedure to follow in the event of the discovery of numan remains	. 22
		5.2.5 Strategy 5: Procedure to follow in the event of unexpected non-Aboriginal finds	. 22
		community collection or discovered during ground disturbing works	.23
		5.2.7 Strategy 7: Ongoing consultation with Aboriginal stakeholders and Heritage NSW	0
		regarding the management and conservation of Aboriginal cultural heritage	
		throughout the operational life of the project	.23
6	Com	liance management	. 25
	6.1	Roles and responsibilities	.25



	6.2	Record keeping	25
	6.3	Incidents	25
7	Train	ing and awareness	26
8	Revie	ew and improvement	27
	8.1	Continuous improvement	27
	8.2	HMP update and amendment	27
Refer	ences		
Apper	ndice	S	
Apper	ndix 1	Heritage induction material	31
	Ident	ifying Aboriginal objects and site types	
	Ident	ifying historical heritage items	35
Apper	ndix 2	Resume of report authors	
Apper	ndix 3	Aboriginal consultation log	40
Apper	ndix 4	Aboriginal consultation	43
Tables	5		
Table	1	Project team experience summary	3
Table	2	Aboriginal heritage sites associated with the project	15
Table	3	Non-Aboriginal heritage sites associated with the project	16
Table	4	Impacts to Aboriginal heritage sites	18
Table	5	Impacts to non-Aboriginal heritage items	19
Table	6	Operational related measures	20
Table	7	Roles and responsibilities and contact details	25
Table	8	Draft HMP responses	40
Figure	es		
Figure	e 1	Location of the study area	5
Figure	2	Study area detail	6
Figure	3	Sites requiring management	7
Figure	e 4	Proposed works	8



# 1 Introduction

This Heritage Management Plan (HMP) manages the impacts to Aboriginal and non-Aboriginal heritage during the upgrades to Aldington Road, Abbotts Road, and the intersection of Mamre Road and Abbotts Road (the project) (Figure 1 and Figure 2). This HMP has been prepared to supplement the Construction Environmental Management Plan (CEMP) that is being prepared for the project, as was recommended in the Aboriginal Cultural Heritage Assessment (ACHA) conducted by Biosis (2024).

### 1.1 Project background

Biosis Pty Ltd (Biosis) was commissioned by AT&L, on behalf of the developer, to undertake a HMP for the proposed upgrades to Aldington Road, Abbotts Road, and the intersection of Mamre Road and Abbotts Road in Kemps Creek, New South Wales (NSW) (the study area). The project is currently being assessed as a State Significant Development (SSD) application under Part 4.36 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). The project is yet to undergo determination through the SSD planning process. Should conditions in addition to the management measures detailed in this HMP be required as part of the SSD approval, this HMP must be updated to address those conditions

The ACHA prepared for the project (Biosis 2024) was sent to the Registered Aboriginal Parties (RAPs) for review and comment. This was done as part of Stage 4 of the consultation process, as outlined the *Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010* (DECCW 2010b) (consultation requirements).

The ACHA identified three existing Aboriginal Heritage Information Management System (AHIMS) sites (Figure 3) within the boundaries of the study area which require management, including:

- AHIMS 45-5-5747/270 Aldington Road AS02.
- AHIMS 45-5-5692/Aldington Road IF01.
- AHIMS 45-5-5607/Aldington Road 01.

This HMP details the management and mitigation measures for these three AHIMS sites, in addition to any unexpected Aboriginal or non-Aboriginal heritage objects found during the project. This HMP has been prepared in accordance with the EP&A Act and the *National Parks and Wildlife Act 1974* (NPW Act).

The Statements of Heritage Impact prepared for the project (Biosis 2023a and Biosis 2023b) identified two non-Aboriginal heritage items located partially within the study area (Figure 3). This HMP details the management and mitigation measures for these items.

### 1.2 Study area

The study area is located within the Penrith Local Government Area (LGA), Parish of Melville, County of Cumberland (Figure 1). The study area incorporates Aldington Road, Abbotts Road, and the intersection of Mamre Road and Abbotts Road, and is bounded by private property to the north, south, east, and west (Figure 2).



### 1.3 Project works

The proposed development for the project involves upgrades to Aldington Road, Abbotts Road, the intersection of Mamre Road and Abbotts Road (Figure 4). This includes earthworks comprising cutting and filling along the existing road corridor, refining and reinforcing the new infrastructure and installation of road signage.

### 1.4 Purpose and objectives

The purpose of this HMP is to describe how Aboriginal and non-Aboriginal heritage will be protected and managed by the developer during the operational life of the project. The key objective of the HMP is to ensure that impacts to Aboriginal and non-Aboriginal heritage are minimised and within the scope permitted by the project approval. The HMP will supplement the CEMP that is being prepared for the project.

Specific objectives include:

- A description of the measures that would be implemented for:
  - Managing the discovery of human remains or previously unidentified heritage items.
  - Conducting further archaeological and heritage assessment in any disturbance areas where this assessment has not already been carried out.
  - Ensuring any workers on site receive suitable heritage inductions prior to carrying out any work on site.

The HMP must include a description of the measures for the management of Aboriginal heritage that would be implemented to:

- Protect the heritage items outside the project disturbance area.
- Minimise and manage the impacts of the project on heritage items within the disturbance area, including:
  - Any proposed archaeological investigations and/or salvage measures.
  - A strategy for the long-term management of any items or material that are collected during any of these archaeological or works.
- Monitor and report on the effectiveness of any mitigation measures and any heritage impacts of the project.
- Maintain and manage reasonable access for Aboriginal stakeholders to heritage items on site.
- Provide for ongoing consultation with Aboriginal stakeholders in the conservation and management of Aboriginal cultural heritage on site.

The HMP must include a description of the measures that would be implemented for the management of non-Aboriginal heritage to:

- Protect the heritage items outside the project disturbance area.
- Minimise and manage the impacts of the project on heritage items within the disturbance area, including:
  - Archaeological test excavations or salvage of all sites of local significance in accordance with the NSW Heritage Manual.



- Photographic and archival recording of all heritage items that would be affected by the project.
- Monitor and report on the effectiveness of these measures and any heritage impacts of the project.

This HMP should be read in conjunction with the following document:

- Aldington and Abbotts Road, and Mamre and Abbotts Road Intersection Upgrades: Aboriginal Cultural Heritage Assessment (Biosis 2024).
- Aldington Road and Abbotts Road Upgrades, Kemps Creek, NSW: Statement of Heritage Impact (Biosis 2023a).
- Upgrades to the Abbotts Road and Mamre Road Intersection, Kemps Creek, NSW: Statement of Heritage Impact (Biosis 2023b).

#### 1.5 Heritage Management Plan conditions

Following an SSD approval, this HMP will be updated (if required) to ensure that it satisfies the conditions within the SSD approval conditions. The conditions provided in the SSD approval will be added to this HMP, indicating the corresponding section of this HMP that addresses the condition.

### 1.6 Contributors

This HMP was prepared by Crystal Garabedian (Heritage Consultant) at Biosis. This report has been reviewed by Mathew Smith (Senior Heritage Consultant) at Biosis. A summary of their professional experience can be seen in Table 1 below.

Name	Experience summary	Role in project
Mathew Smith BA/BSc (Hons) Senior Heritage Consultant	Mathew is an archaeologist with over eight years' experience in the consulting industry. Mathew is currently based out of Wollongong and has extensive experience in Western NSW and the South Coast. Mathew has also managed and completed a range of Aboriginal cultural heritage and historical heritage projects across NSW, including the Sydney Basin, Hunter Valley, Central and Northern NSW regions. Mathew focuses on Aboriginal archaeology and has successfully obtained project approvals for Aboriginal Heritage under the NPW Act, including Aboriginal Heritage Impact Permits and State Significant Development approvals. As part of these approvals Mathew has authored a range of report types including due diligence assessments, Aboriginal cultural heritage assessments, heritage management plans and letters of advice which have supported review of environmental factors, Environmental Impact Statements and development applications. Mathew's key areas of expertise include project management, field surveys, archaeological excavation, Aboriginal community consultation, and preparation of technical reports. Mathew is also recognised by the Australian Association of Consulting Archaeologists Inc., as a specialist in the recording and analysis of Aboriginal artefacts.	<ul> <li>Quality assurance</li> <li>Technical advice</li> </ul>
<b>Charlotte Allen</b> <b>BA (Hons)</b> Senior Heritage Consultant	Charlotte has over six years' archaeological consulting experience, and is skilled in historical research, report preparation and project management. Prior to consulting, Charlotte had an established career in administrative, project management and data management support in the heritage, health and transport sectors. Charlotte has broad experience working as	Quality     assurance

#### Table 1 Project team experience summary



Name	e Experience summary	
	an archaeologist on Aboriginal and European heritage projects across New South Wales. Charlotte has strong technical skills in research, archaeological field surveys and excavation, artefact analysis, and technical report writing, with a focus on detail and accuracy. Charlotte has managed a range of projects for a variety of client bases, including Aboriginal Due Diligence Assessments, Aboriginal Cultural Heritage Assessments, Historical Heritage Assessments, Historical Archaeological Assessments, Statements of Heritage Impact, Conservation Management Plans, Heritage Interpretation Strategies and Plans, Constraints Analyses and Letters of Advice. Charlotte has also had numerous successful permit applications under the Heritage Act 1977 and National Parks and Wildlife Act 1974, with minimal comments from government regulators.	
Crystal Garabedian BSc/BA (Hons) Heritage Consultant	Crystal completed her Bachelor of Science and Bachelor of Arts with Honours in 2018, where she developed specialist skills in the identification of marine zooarchaeological material. Prior to her time at Biosis, Crystal was a research assistant at Macquarie University and La Trobe University. She was part of a project team who developed field recording software and gained experience in artefact cataloguing and report writing. Crystal was also a subcontracting archaeologist and undertook cataloguing, photography, and detailed analyses of faunal, ceramics, building materials and glass artefacts. Since joining Biosis, Crystal has gained experience in Aboriginal community consultation, project management, research, report writing, field surveys, test and salvage excavations. She has managed Historical Heritage Assessments, Aboriginal due diligence Assessments and Aboriginal Cultural Heritage Assessments for a variety of projects throughout New South Wales.	<ul> <li>Project management</li> <li>Report preparation</li> <li>Aboriginal community consultation</li> </ul>
















## 2 Environmental requirements

The following section outlines the environmental requirements of the project including relevant legislation and guidelines that have been used to assist in the formulation of this HMP.

### 2.1 Relevant legislation and guidelines

Legislation relevant to heritage management includes:

- EP&A Act.
- NPW Act.
- Heritage Act (NSW) 1977 (Heritage Act).

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

- Aboriginal Cultural Heritage Consultation Requirements.
- The Burra Charter: The Australia ICOMOS Charter for Places of Cultural Significance (Australia ICOMOS 2013).
- The Code of Practice for the Archaeological Investigation of Aboriginal Objects in New South Wales (the Code) (DECCW 2010a).

### 2.2 Commitment to cultural heritage preservation

According to Allen and O'Connell (2003), Aboriginal people have inhabited the Australian continent for the last 50,000 years. New evidence out of the Northern Territory has pushed this date back with the Malakanunja II rock shelter dated at around 65,000 years before present (BP) (Clarkson et al. 2017). In NSW, according to Bowler et al. (2003), Aboriginal people have occupied the land for over 42,000 years. However, preliminary evidence presented by Biosis (2016) from a subsurface testing program in south-western NSW suggests Aboriginal people may have occupied the semi-arid zone of the region for 50,000 years. Within the Sydney Basin, Aboriginal occupation of the region extends well back into the Pleistocene period (i.e., prior to 10,000 years BP). This is evidenced by radiocarbon dates retrieved from excavated sites at Shaw's Creek K2 (14,700 years BP) (Attenbrow 2010, p. 18), at Windsor with 33,000 BP (Karskens et al. 2019) as well as sites in Parramatta (approximately 25,000–30,000 BP and 14,000 BP) (Jo McDonald Cultural Heritage Management 2005, 2005, Williams et al. 2021).

Without being part of the Aboriginal culture, and the productions of this culture, it is not possible for non-Aboriginal people to fully understand their meaning to Aboriginal people—only to move closer towards understanding this meaning with the help of the Aboriginal community. Similarly, definitions of Aboriginal culture and cultural heritage without this involvement constitute outsider interpretations.

With this preface, Aboriginal cultural heritage broadly refers to things that relate to Aboriginal culture and hold cultural meaning and significance to Aboriginal people (DECCW 2010b). Aboriginal people have a strong connection to place and there is an understanding in Aboriginal culture that everything is interconnected. In essence, Aboriginal cultural heritage can be viewed as potentially encompassing any part of the tangible and/or intangible landscape, that is, 'Country' (DECCW 2010b).



Aboriginal people's interpretation of cultural value is based on their 'traditions, observance, lore, customs, beliefs and history' (DECCW 2010b). The things associated with Aboriginal cultural heritage are continually and actively being defined by Aboriginal people (DECCW 2010b). These things can be associated with traditional, historical or contemporary Aboriginal culture (DECCW 2010b).

### 2.2.1 Tangible Aboriginal cultural heritage

Three categories of tangible Aboriginal cultural heritage may be defined as:

- Things that have been observably modified by Aboriginal people.
- Things that may have been modified by Aboriginal people, but no discernible traces of that activity remain.
- Things never physically modified by Aboriginal people (but associated with Dreamtime Ancestors who shaped those things).

### 2.2.2 Intangible Aboriginal cultural heritage

It is imperative to consider intangible values when assessing Aboriginal cultural heritage, as these can aid in understanding the deep connections and thus the significance of sites and landscapes in Aboriginal culture. Examples of intangible Aboriginal cultural heritage would include memories of stories and 'ways of doing', which would include language and ceremonies (DECCW 2010b). Aboriginal community consultation aids in identifying intangible Aboriginal cultural heritage values.

### 2.2.3 Statutory

Currently Aboriginal cultural heritage, as statutorily defined by the NPW Act, consists of objects and places.

Aboriginal objects are defined as:

'any deposit, object or material evidence...relating to the Aboriginal habitation of the area that comprises NSW, being habitation before or concurrent with (or both) the occupation of that area by persons of non-Aboriginal extraction, and includes Aboriginal remains.'

Aboriginal places are defined as a place that is or was of special Aboriginal cultural significance. Places are declared under Section 84 of the NPW Act.

### 2.2.4 Values

Aboriginal cultural heritage is broadly valued by Aboriginal people as it is used to define their identity as both individuals and as part of a group (DECCW 2010b). More specifically it is used:

- to provide a:
  - 'Connection and sense of belonging to Country' (DECCW 2010b).
  - Link between the present and the past (DECCW 2010b).
- As a learning tool to teach Aboriginal culture to younger Aboriginal generations and the general public (DECCW 2010b).
- As further evidence of Aboriginal occupation prior to European settlement for people who do not understand the magnitude to which Aboriginal people occupied the continent (see also (DECCW 2010b)).



The NSW government and all of its entities are committed the protection and preservation of Aboriginal and non-Aboriginal cultural heritage in NSW and for the project.



## 3 Existing environment

The following sections summarise what is known about Aboriginal and non-Aboriginal heritage within and adjacent to the study area based on information provided in:

- Aldington and Abbotts Road, and Mamre and Abbotts Road Intersection Upgrades: Aboriginal Cultural Heritage Assessment (Biosis 2024).
- Aldington Road and Abbotts Road Upgrades, Kemps Creek, NSW: Statement of Heritage Impact (Biosis 2023a).
- Upgrades to the Abbotts Road and Mamre Road Intersection, Kemps Creek, NSW: Statement of Heritage Impact (Biosis 2023b).

### 3.1 Aboriginal cultural heritage

The Aboriginal cultural heritage values were subject to assessment through the following processes:

- Literature and database review.
- Archaeological survey.
- Aboriginal consultation.
- Assessment of significance and proposed impacts.

Based upon these tasks, three Aboriginal heritage sites have been identified, these are detailed in Table 2 and their locations are identified in Figure 3. All Aboriginal heritage sites have been recorded in accordance with the Code, submitted to the Heritage NSW, NSW Department of Climate Change, Energy, the Environment and Water (Heritage NSW) and listed within the AHIMS database.

AHIMS site	Description	Significance	Recommendations (Biosis 2024)
AHIMS 45-5- 5747/270 Aldington Road AS02	AHIMS 45-5-5747/270 Aldington Road AS02 is a subsurface, low density artefact scatter that was identified during a program of test excavations conducted by Biosis (2023b). The site is located within a lower slope landform in the western portion of the assessment area. The site extent of AHIMS 45-5-5747/270 Aldington Road AS02 overlaps the current study area so that a small portion of it is within. It contained 31 lithic artefacts recovered across the PAD area, of which 25 were silcrete, three were IMT and three were chert. The artefact forms consisted of 15 angular fragments, five distal flakes, four complete flakes, three proximal flakes, two medial flakes, one multidirectional core and one manuport. Disturbances observed within the area relate to low intensity agriculture.	Low	<ul> <li>Development of an CHMP</li> <li>Unexpected finds procedure</li> </ul>
AHIMS 45-5- 5692/Aldington Road IF01	AHIMS 45-5-5692/Aldington Road IF01 was identified during an archaeological survey as part of a ADDA being completed by Biosis (2023c). The site was located on the	Low	Development of     an CHMP

### Table 2Aboriginal heritage sites associated with the project



AHIMS site	Description	Significance	Recommendations (Biosis 2024)
	mid-slope of a sloped landform, within a disturbed landscape. It consisted of a single, silcrete multi-platform core with two complete flake scars. The artefact measured 34.18 millimetres in length, 28.36 millimetres in width and 22.01 millimetres in thickness. The artefact was found within vehicle tracks, on top of the topsoil layer, approximately 206 metres from the closest water source.		Unexpected finds     procedure
AHIMS 45-5- 5607/Aldington Road 01	AHIMS 45-5-5607/Aldington Road 01 is an isolated artefact identified during a program of test excavations conducted by Austral Archaeology (2022). The site is located in an upper slope landform and contained a single silcrete proximal flake.	Low	<ul> <li>Development of an CHMP</li> <li>Unexpected finds procedure</li> <li>Community collection</li> </ul>

### 3.2 Non-Aboriginal heritage

The assessment of non-Aboriginal heritage values within the study area was undertaken through the completion of the following tasks:

- Literature and database review.
- Archaeological survey.
- Assessment of proposed impacts.

The proposed works for the project will be undertaken within the curtilage of two items of local heritage significance listed on the *State Environmental Planning Policy (Industry and Employment) 2021* (SEPP) (Brick Farmhouse (Item No. I4) and Gateposts to Colesbrook (Item No. I3)). These sites are detailed in Table 3 and their locations are identified in Figure 3.

It was determined during the SoHIs that the proposed works will have no adverse visual impact on the items (Biosis 2023a and Biosis 2023b). The significant heritage elements of the items are set back from the location of the proposed works and the road corridor. Therefore, the proposed works were deemed unlikely to adversely impact any items of heritage significance within the study area.

Site	Statement of significance	Significance	Recommendations (Biosis 2023a and Biosis 2023b)
Brick Farmhouse (l4)	The farmhouse is of local significance and demonstrates the emergence of small farmsteads in the area following the subdivision of the Fleurs estate in the 1880s. Albeit altered the building remains a substantial and elaborate farmhouse of its era prominently set on a hillside overlooking the South Creek floodplain. The house and surrounding cleared hillside evoke a rural setting. The house is best of the late-nineteenth century and early- to mid-twentieth century residences in this historically sparsely settled area. This significance is enhanced by its historic association with the Fleurs estate subdivision (NSW Government 2006).	Local	<ul> <li>Works may proceed with caution</li> <li>Heritage induction</li> <li>Unexpected finds procedure</li> </ul>

### Table 3 Non-Aboriginal heritage sites associated with the project



Site	Statement of significance	Significance	Recommendations (Biosis 2023a and Biosis 2023b)
Gateposts to Colesbrook (l3)	Significant as evidence of the prosperity of the larger rural properties in the late-19th and early-20th Century, and the subsequent decline leading to the present day subdivision of the area into 10ha allotments. (Fox Associates 1987: KC-4)* (NSW Government 2000) *No further detail was available on the SHR.	Local	<ul> <li>Works may proceed with caution</li> <li>Heritage induction</li> <li>Unexpected finds procedure</li> </ul>



## 4 Environmental aspects and impacts

The key construction activities and the associated potential impacts to heritage values (both Aboriginal and non-Aboriginal) were identified through a risk management approach. The consequence and likelihood of each activity's impact on the environment was assessed to prioritise its significance.

### 4.1 Aboriginal heritage impacts

The potential impacts on Aboriginal heritage recordings include:

- Direct impacts and disturbance to the entire site or most of a site containing Aboriginal objects due to the construction of the project, this can be complete or partial.
- Indirect impacts to Aboriginal objects or cultural values, such as from development related changes to the landscape or scenic context of a site or item.

The proposed works include includes earthworks including cutting and filling along the existing road corridor, refining and reinforcing the new infrastructure and installation of road signage. These works all have the potential to heavily impact ground surfaces through excavation and will result in direct impacts to Aboriginal sites AHIMS 45-5-5747/270 Aldington Road AS02, AHIMS 45-5-5692/Aldington Road IF01 and AHIMS 45-5-5607/Aldington Road 01. A summary of impacts is provided below in Table 4.

Table 4	Impacts to	Aboriginal	heritage	sites

AHIMS site no.	Site name	Significance	Type of harm	Degree of harm	Consequence of harm
AHIMS 45-5- 5747	270 Aldington Road AS02	Low	Direct	Partial	Partial loss of value
AHIMS 45-5- 5692	Aldington Road IF01	Low	Direct	Total	Total loss of value
AHIMS 45-5- 5607	Aldington Road 01	Low	Direct	Total	Total loss of value

In the event that additional disturbance is anticipated to occur outside of the areas explicitly surveyed in Biosis 2024, then these disturbances will need to undergo additional heritage assessment and impact mitigation processes prior to the commencement of any associated works. It is likely that any additional impacts outside of the areas surveyed in Biosis 2024 would need to be assessed as a modification to the existing approval.

### 4.2 Non-Aboriginal heritage impacts

The potential impacts of the project on non-Aboriginal heritage can be categorised as follows:

- A whole or complete degree of direct impact to a heritage item resulting in the physical loss of the item.
- Partial or minor direct impact to heritage item(s).
- Indirect impacts, such as to the contextual and landscape values associated with an item.
- Indirect impact to items of heritage which could be moved to avoid direct impact and as a consequence lose contextual integrity.



• No significant impact (this category involves instances where the development would either not pose an impact to a heritage item [direct or indirect] or any impacts would be insignificant and would not reduce the heritage value or significance of the item).

During the completion of the SoHIs (Biosis 2023a and Biosis 2023b), two non-Aboriginal heritage items were located. The impacts of the ground disturbing works caused by the proposed development within the curtilage of the heritage items on the heritage items was considered to be acceptable. The impacts are indirect, as they will occur within fringes of the items' curtilages and are set back from their significant elements. The consequences of harm of will result in no loss of value. Impacts to non-Aboriginal heritage items are presented in Table 5.

### Listing Significance Type of **Degree of Consequence of** Item name harm harm harm SEPP (Industry and Local Indirect No loss of value Brick Farmhouse (I4) No harm Employment) 2021 **SEPP** (Industry and Gateposts to Colesbrook (I3) Local Indirect No harm No loss of value

### Table 5Impacts to non-Aboriginal heritage items

Employment) 2021



## 5 Environmental mitigation measures

### 5.1 Operational related measures

Specific mitigation measures to address impacts on Aboriginal and non-Aboriginal heritage are outlined in Table 6. Where required, further details of the proposed mitigation measures are provided in Section 5.2. These measures define the unexpected finds protocol

Strategy	Requirement	Personnel
1	Heritage inductions for all employees, contractors and sub-	Project manager/ Heritage consultant
-	contractors working in the study area.	
2	Community collection of AHIMS 45-5-5607/Aldington Road 01	Heritage consultant/Aboriginal
-		community
3	Procedure to follow in the event of unexpected Aboriginal finds.	Construction contractor
4	Procedure to follow in the event of unexpected human remains.	Construction contractor
5	Procedure to follow in the event of unexpected non-Aboriginal	Heritage consultant/ Construction
5	finds.	contractor/Aboriginal community
	Long term management of Aboriginal heritage items discovered	Project manager/Heritage
6	in the ACHA or during ground disturbing works in the land	consultant/Aboriginal community
	outside of the ACHA.	
	Ongoing consultation with Aboriginal stakeholders and Heritage	Heritage consultant/Aboriginal
7	NSW regarding the management and conservation of Aboriginal	community
	cultural heritage throughout the operational life of the project.	

### Table 6Operational related measures

### 5.2 Heritage protection management strategies

## 5.2.1 Strategy 1: Heritage inductions for all employees, contractors and sub-contractors working in the study area

All contractors and staff involved in construction activities on site will undergo site induction training (or be supervised by a staff member that has had the relevant training) relating to Aboriginal and non-Aboriginal heritage management issues. The induction training will address elements related to heritage management including:

- Requirements of this HMP and relevant legislation.
- Roles and responsibilities for heritage management.
- Proposed heritage management and protection measures.
- Basic identification skills for Aboriginal artefacts, non-Aboriginal artefacts and human remains.
- Procedure to follow in the event of an unexpected heritage item find during construction works.
- Procedure to follow in the event of discovery of human remains during construction works.
- Penalties and non-compliance with this HMP.



Opportunity for Aboriginal community members to be involved in delivering the Aboriginal cultural heritage inductions should also be provided.

Training records for all contractors and staff involved in construction activities will be kept and maintained in a register detailing names, dates, content and type of training undertaken. This HMP should always be kept on site and be readily accessible. The requirements of the HMP and the unexpected finds protocols should be incorporated into toolbox talks, and the mapping presented in this report should be reviewed and management measures assessed to ensure no impacts beyond the project approval are likely to take place.

Further details of a heritage induction package have been provided in Section 7 and Appendix 1 of this HMP.

### 5.2.2 Strategy 2: Community collection of AHIMS 45-5-5692/Aldington Road IF01

The ACHA identified one Aboriginal surface artefact (AHIMS 45-5-5692/Aldington Road IF01), for which an attempt at community collection must be permitted (Biosis 2024). Community collection of AHIMS 45-5-5692/Aldington Road IF01 will conform to the following methodology:

- Surface artefact will be collected under the supervision of a nominated RAP and heritage consultant.
- A GPS point for the artefact will be taken.
- A photographic record will be compiled.
- The cultural material will be collected, bagged, and clearly labelled.
- The artefact will be temporarily stored in a secured location at the Biosis Sydney office (14/17–27 Power Avenue, Alexandria NSW), until the completion of the project.
- An AHIMS Site Impact Recording form will be completed and submitted to the AHIMS Registrar for the site salvaged via community collection.

If the attempt at community collection is unsuccessful and the artefact cannot be relocated, an update will be sent to the RAPs for the ACHA (Biosis 2024) and works can proceed in line with the other management strategies of this HMP.

### 5.2.3 Strategy 3: Procedure to follow in the event of unexpected Aboriginal finds

Should any Aboriginal sites be identified during the development works, the following process should be followed:

- Works must cease in the vicinity and the find should not be moved until assessed by a qualified heritage consultant.
- A 10 meter wide buffer area around the find must be established, and the object must be cordoned off. The boundaries of all unexpected Aboriginal finds that are located within the project disturbance area will be clearly marked with star pickets or pegs and high visibility flagging tape to ensure that no impacts can occur to these finds.
- The heritage consultant will investigate and assess the find to determine the nature, extent and significance of the find. This will enable recommendations to be provided on how work can proceed and whether any further archaeological assessment is required. The heritage consultant must supply written advice to the Project Manager providing:
  - A determination of whether the find is an Aboriginal object.



- Advice on how the project is to proceed and whether the establishment of any no-go areas is necessary.
- Recommendations regarding further works that may be required and timeframe for completion of these works.
- Any Aboriginal finds will be registered on AHIMS. Where sites are impacted, a site impact form will be completed and lodged with AHIMS prior to impact.
- Create a no-go area around the find based upon the advice of the heritage consultant.
- If the unexpected find is determined to be an Aboriginal object, the heritage consultant's written advice will be supplied to Heritage NSW, the client and RAPs for their review. This will include a statement concerning the find, management measures implemented and notification of any further works arising. RAPs are to be involved in any further assessments or works as required. Any comments made by Heritage NSW and the RAPs will be incorporated into the written advice prior to finalisation and works proceeding.
- Should any previously unidentified Aboriginal finds be identified, this will trigger a review of this ACHMP in accordance with Section 8. Please note that Appendix 1 contains guidelines around the identification of Aboriginal objects and site types.

### 5.2.4 Strategy 4: Procedure to follow in the event of the discovery of human remains

If any suspected human remains are discovered within the study area, all activity must cease. The following process must be undertaken:

- Immediately cease all work at that location and not further move or disturb the remains.
- Notify the NSW Police, Planning and Infrastructure and Heritage NSW Environmental Line on 131 555 as soon as practicable and provide details of the remains and their location.
- Establish an appropriate no-go area. This will need to be established in consultation with NSW Police, Heritage NSW and if necessary, a qualified heritage consultant.
- Works will not be able to recommence within the location of the find until confirmation from NSW Police and Heritage NSW is obtained. If the remains are confirmed as not being human, then works may recommence. If remains are human then consultation with NSW Police, Heritage NSW and the Aboriginal stakeholders will be required to establish a plan of management.
- Works in the vicinity of the find will only be able to commence once the plan of management has been established and approval has been obtained from all relevant parties.
- Should any human remains be identified, this will trigger a review of this ACHMP in accordance with Section 8.

### 5.2.5 Strategy 5: Procedure to follow in the event of unexpected non-Aboriginal finds

Where non-Aboriginal items are identified, an assessment will need to be made as to the significance of the item. Non-Aboriginal heritage items may include archaeological 'relics' or other non-Aboriginal items (i.e. works, structures, buildings or movable objects). The Heritage Act defines a relics as '...any deposit, artefact, object or material evidence that relates to the settlement of the area that comprises NSW, not being Aboriginal settlement; and is of State or local heritage significance...'.

The following process should be followed with respect to unexpected items:



- Should any suspected non-Aboriginal items be encountered during works, works must cease in the vicinity and the find should not be moved until assessed by a qualified heritage consultant.
- A 10 meter wide buffer area around the find must be established, or the object must be cordoned off. The boundaries of all unexpected non-Aboriginal finds that are located within the project disturbance area will be clearly marked with star pickets or pegs and high visibility flagging tape to ensure that no impacts can occur to these finds.
- The heritage consultant will investigate and assess the non- Aboriginal item to determine the nature, extent, and significance of the find. This will enable recommendations to be provided on how work can proceed and whether any further work is required. The heritage consultant must supply written advice to the Project Manager stating:
  - Determination of whether the find is a relic.
  - Advice on how the project is to proceed and whether the establishment of any no-go areas is necessary.
  - Recommendations regarding further works that may be required and timeframe for completion of these works.
- Should the item be determined that it is a relic, Heritage NSW may need to be notified. This will include a statement concerning the find, management measures implemented and notification of any further works arising.

## 5.2.6 Strategy 6: Long term management of Aboriginal heritage items recovered during community collection or discovered during ground disturbing works

Following the successful community collection of AHIMS 45-5-5692/Aldington Road IF01 a long term management strategy will need to be established to outline the treatment of this cultural material. This will be done in consultation with the RAPs for the ACHA conducted for the study area (Biosis 2024), following the retrieval of any cultural material. If during ground disturbing works Aboriginal objects are discovered, the long term management strategy will need to be revisited with the RAPs to accommodate any additional finds.

Following an SSD approval, this HMP will be updated (if required) to ensure that it satisfies the conditions within the SSD approval conditions. After the commencement of works and subsequent destruction of AHIMS 45-5-5747/270 Aldington Road AS02, AHIMS 45-5-5692/Aldington Road IF01 and AHIMS 45-5-5607/Aldington Road 01, an Aboriginal Site Impact Recording Form will be prepared and submitted to AHIMS.

# 5.2.7 Strategy 7: Ongoing consultation with Aboriginal stakeholders and Heritage NSW regarding the management and conservation of Aboriginal cultural heritage throughout the operational life of the project

Heritage NSW and the RAPs should be continuously consulted throughout the project on matters regarding the management and conservation of any known and unexpected Aboriginal cultural heritage. It is recommended that:

- RAPs are provided a copy of this HMP within 14 days of finalisation of this report.
- This HMP be provided to RAPs after any major revision to the report, for 14 days to review and comment.
- A copy of the HMP be provided to RAPs after minor revisions; however, no comment is required in accordance with Section 8 for minor revisions.



• In the event of any Aboriginal unexpected finds, RAPs should be advised in accordance with Strategy 3 (Section 5.2.4).



## 6 Compliance management

### 6.1 Roles and responsibilities

The developers are responsible for ensuring all activities in this management plan are carried out during operation of the project, along with reporting any incidents to Heritage NSW. The developer may appoint a Project Manager or Project Management Company to act on their behalf.

Construction site personnel and contractors must comply with the activities outlined in this plan and any deviation to activities outlined in this plan must be reported to the developer (or appointed Project Manager). Roles and responsibilities are outlined in Table 7.

Name	Role	Contact details
Gerard Noone	Project Manager	0439 246 804 gerard.noone@robsoncivil.com.au
Alasdair Cameron	Developer/Project Manager	0402 458 226 alasdair.cameron@esr.com
Heritage NSW	Regulator/Compliance	(02) 9873 8500 heritagemailbox@environment.nsw.gov.au
Crystal Garabedian	Heritage Consultant (Biosis)	0456 625 253 <u>cgarabedian@biosis.com.au</u>

 Table 7
 Roles and responsibilities and contact details

### 6.2 Record keeping

Records of the identified heritage items on AHIMS standard documentation records must be kept by the heritage consultant, site personnel, contractors, and the developer. Biosis have developed a strategy for consultation with Aboriginal stakeholders regarding the ongoing management and conservation of Aboriginal cultural heritage within the study area for the operational life of the project. This can be seen in Section 5.2.7.

### 6.3 Incidents

If an incident occurs that results in actual or potential impacts on known heritage items and/or archaeological items that are discovered unexpectedly, the Heritage NSW will be informed immediately.

The report to Heritage NSW should also be sent to the developer and the Heritage Consultant, and include:

- Any contravention to the strategies outlined in the HMP.
- The nature of the incident.
- The actual or likely impact of the incident on Aboriginal objects and/or Aboriginal places.
- The nature and location of the Aboriginal objects and/or places, referring to and providing maps and photos where appropriate.
- The measures which have been taken or will be taken to prevent a recurrence of the incident.



## 7 Training and awareness

All site personnel must comply with all Work Health and Safety (WHS) manuals and procedures relevant to the project, as will be outlined in the CEMP. As part of the operation of the project, site personnel must undertake a cultural heritage induction which will include:

- A description of Aboriginal cultural heritage in Australia.
- A description of Aboriginal cultural heritage in the Kemps Creek area.
- A description of the tangible and intangible aspects of Aboriginal heritage and why it is important.
- An overview of the NPW Act and the Heritage Act and the implications and fines applicable for breaching the Acts.
- A general overview of historic heritage in the Kemps Creek area.
- A description of all historic heritage site types within the study area.
- The process for reporting unknown cultural heritage sites.
- The process for reporting damage to cultural heritage sites.
- The process for reporting human remains.

In addition to the above, Biosis will provide an overview of each recorded Aboriginal heritage site which has been identified on the project. This will include:

- The site boundaries and how they have been marked.
- The content of the site.
- Whether any salvage works have taken place.



## 8 Review and improvement

### 8.1 Continuous improvement

Opportunities for the improvement of this HMP will be found through the ongoing evaluation of environmental management performance against environmental policies, objectives, and targets. The purpose of this is to:

- Identify opportunities for the improvement of environmental management and performance.
- Determine the cause or causes of non-conformances and deficiencies.
- Development and implementation of a plan of corrective and preventative actions to address any non-conformances and deficiencies in this HMP.
- Corroborate the efficiency of the corrective and preventative actions.
- Document any changes in procedures resulting from process improvement.
- Revise the objectives and targets of this HMP accordingly.

### 8.2 HMP update and amendment

Updates and amendments to this HMP will occur as needed. A copy of the updated HMP and changes will be distributed to all relevant stakeholders in accordance with the approved document control procedure. The HMP will also be updated and resubmitted for approval in the event that any previously unidentified heritage items are found.



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## Appendices



## Appendix 1 Heritage induction material

### Identifying Aboriginal objects and site types

Tangible Aboriginal heritage items take several forms, including:

- Lithic (stone) artefacts.
- Faunal remains (shell and animal bone).
- Culturally modified trees.
- Human burials.
- Hearths.
- Aboriginal resourcing gathering locations.

Aboriginal sites can consist of single items and high density archaeological deposits. Examples of Aboriginal heritage items are shown in photographs below:



### Isolated stone artefact

Stone artefacts are any items of stone material made or modified by people, including any debris left behind when such tools were made. Materials used to make stone artefacts may be found locally, or traded across long distances.





## Stone artefact scatter

Stone artefact scatter sites comprise groups of stone tools, debris and the tools used in manufacture (i.e. stone anvils and hammerstones). Artefact scatters can range from high-density concentrations of flaked stone and ground stone artefacts to sparse, lowdensity 'background' scatters and isolated finds.



Shell middens are the remains of food production and processing areas, where people would have sat down to eat, cook or prepare food. Shell middens occur commonly in coastal areas, however they also occur near inland watercourses where freshwater mussels and other edible mollusc species may be present.







### **Modified tree**

A modified tree is any tree from which the back has been cut or harvested for the manufacture of containers (coolamon), canoes, shields, weapons and medicines. Scarring also occurred where toeholds were cut to allow people to climb trees to hunt possums, reptiles, birds or harvest wild honey.



### **Burial**

Burials comprise any traditional Aboriginal human skeletal remains, intact or fragmentary. If any suspected human remains are encountered, the procedure set out in ACHMP must be followed.





### Hearth

A hearth is the remains of a campfire, an oven or other food cooking and processing areas. Hearths commonly contain baked clay, termite mound fragments broken up and used as 'heat retainers', small stones used in cooking, charcoal, burnt bone, shell and other food remnants.

### Aboriginal gathering and resource location

Resource gathering locations are places where food, medicines and plant material used as twine, in weaving or tool making by Aboriginal people exist. Many such locations are still accessed by contemporary Aboriginal people.





### Identifying historical heritage items

If any historical relics are identified then the unexpected finds process must be followed. As stated above, non-Aboriginal heritage items may include archaeological 'relics' or other historical items (i.e. works, structures, buildings or movable objects).

Historical heritage items/objects can consist of the following materials:

- Ceramic.
- Glass.
- Organic material.
- Leather.
- Metal.
- Synthetic.

Historical relics can consist of single items, dense archaeological deposits, built structures and landscapes. Examples of heritage items are shown in photographs below.



### **Ceramic plate fragments**



### **Glass artefacts**

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### **Ceramic artefacts**





### Cesspit filled with ash





### A drainage system

### Wall footings





### Dense artefact deposits

**Historic well** 



## Appendix 2 Resume of report authors



**Curriculum vitae** 

### **Mathew Smith**

### Senior Heritage Consultant

### Qualifications

- Bachelor of Arts, University of New England
- Bachelor of Science (Honours), University of New England

### Other qualifications and training

- Provide First Aid (HLTAID011)
- General Construction Induction (white card)
- Four Wheel Drive, Driver Training and Recovery
- AACAI usewear and residue analysis professional development workshop
- Working with children check

## **Professional experience**

Mathew is a senior heritage consultant with eight years' experience in the consulting industry. Mathew has been with Biosis since 2016 and has extensive experience in Aboriginal archaeology. He has successfully obtained project approvals for Aboriginal heritage under both the *National Parks and Wildlife Act 1974* and the *Environmental Planning and Assessment Act 1979* for a wide range of project types including large scale water infrastructure, linear projects including road upgrades, urban development of all sizes, renewable and non-renewable energy projects, and mineral resource projects.

Mathew's key areas of expertise include Aboriginal archaeological and cultural heritage management advice, archaeological excavation and survey, Aboriginal community consultation, artefact analysis, technical report writing and review of technical reports. He has completed Aboriginal Due Diligence Assessments, Aboriginal Cultural Heritage Assessments, Constraints Analysis, and Heritage Impact permits for a range of projects. Mathew has also served as an expert witness for section 34 conciliation conferences, and a Land and Environment Court hearing.

Mathew is currently recognized by the Australian Association of Consulting Archaeologists Inc (AACAI), as a specialist in the recording and analysis of Aboriginal artefacts. He has undertaken full scale lithic analysis for small and large scale projects in accordance with project approval requirements.


# Key project experience

### **Project manager/Senior Heritage Consultant**

Great Artesian Basin Drought Resilience Schemes Keelendi, Brewon and Oreel Aboriginal heritage assessments for Department of Planning and Environment.

Mathew managed Aboriginal heritage assessments for three schemes totaling approximately 130 kilometres of pipeline. Assessments were completed and submitted as part of REFs for each scheme and included field survey. Due to comprehensive field surveys undertaken, each scheme was able to commence without additional permit requirements by avoiding impacts to identified Aboriginal heritage sites.

### **Project manager/Senior Heritage Consultant**

North Beach Seawall, Wollongong Aboriginal Cultural Heritage Assessment for Wollongong City Council.

Mathew undertook and managed an Aboriginal Cultural Heritage Assessment inclusive of Aboriginal community consultation, field survey and test excavations to accompany a REF for seawall upgrades. This included excavations of a known shell midden under a testing AHIP which allowed works to commence without the need for an additional impact AHIP.

# **Project manager/Senior Heritage Consultant**

Tallawarra Lands East-West Link Road, Yallah. Aboriginal Cultural Heritage Assessment for Stantec on behalf of Bridgehill Group.

Mathew managed an Aboriginal Cultural Heritage Assessment inclusive of Aboriginal community consultation, field survey and test excavations to accompany a Development Application for a high density residential development. These included test excavations, consultation, preparation of a CHMP and AHIP application for the project.

### **Project manager/Senior Heritage Consultant**

Brooklyn Fields and Lipsett Sewer extensions Albury Aboriginal Cultural Heritage Assessment for Albury City Council.

Mathew undertook and managed an Aboriginal Cultural Heritage Assessment inclusive of Aboriginal community consultation, field survey and test excavations. Mathew also applied for an AHIP and undertook required compliance works for Albury City Council as part of the approved AHIP requirements.

### **Project manager/Senior Heritage Consultant**

Kulkurna Station Conservation Reserve Cultural Heritage Management Plan for Department of Planning and Environment.

Mathew undertook a gap analysis review of the Reserves 2012 management plan and prepared an updated Cultural Heritage Management Plan as part of The Living Murray Project. This included consultation with community members and development of policies for the protection and management of Aboriginal Heritage in the Reserve.

# Project manager/Senior Heritage Consultant

Bald Hill Cobalt deposits, Broken Hill Aboriginal and Historical heritage assessment on behalf of Rimfire Pacific Mining Ltd.

Mathew managed the Aboriginal and historical assessments for explorative activities across mining lease EL5958, Bald Hill NSW. This included field investigations and detailed historical research.



**Curriculum vitae** 

# **Charlotte Allen**

# **Senior Heritage Consultant**

# Qualifications

 Bachelor of Arts – Archaeology (Hons), University of Leicester

### Other qualifications and training

- General Construction Induction (white card)
- Current first aid certificate
- Current NSW driver's licence
- MS Access 2010 2-Day Workshop
- PRINCE2 Foundation Qualification
- Rail Industry Worker Card
- Working With Children Check
- 4WD Certificate

# **Professional experience**

Charlotte has over six years' archaeological consulting experience, and is skilled in historical research, report preparation and project management. Prior to consulting, Charlotte had an established career in administrative, project management and data management support in the heritage, health and transport sectors. Charlotte has broad experience working as an archaeologist on Aboriginal and European heritage projects across New South Wales.

Charlotte has strong technical skills in research, archaeological field surveys and excavation, artefact analysis, and technical report writing, with a focus on detail and accuracy. Charlotte has managed a range of projects for a variety of client bases, including Aboriginal Due Diligence Assessments, Aboriginal Cultural Heritage Assessments, Historical Heritage Assessments, Historical Archaeological Assessments, Statements of Heritage Impact, Conservation Management Plans, Heritage Interpretation Strategies and Plans, Constraints Analyses and Letters of Advice. Charlotte has also had numerous successful permit applications under the *Heritage Act 1977* and *National Parks and Wildlife Act 1974*, with minimal comments from government regulators.

Charlotte is a confident project manager and field team leader, having worked across various environments, working collaboratively with senior staff and in a team throughout her working life. With experience in both Aboriginal and non-Aboriginal heritage projects in NSW, as well as excavation and field survey experience from the UK, Charlotte is able to consider heritage values and impacts from varying aspects and perspectives.





# Key project experience

### Heritage Consultant/Project Manager

Aboriginal Cultural Heritage Assessment and AHIP application – Sewer Vacuum Renewal Project, Davistown. For Central Coast Council.

This project involved the assessment of hundreds of sewer infrastructure locations within the suburb of Davistown to determine the impacts of proposed refurbishment works to the local sewer network. A methodology was developed following discussions with Heritage NSW which allowed for a two-stage approach to excavations which balanced cost and timeframe needs of the client while ensuring that Aboriginal heritage could be managed effectively. This methodology was approved as part of an Aboriginal Heritage Impact Permit under the *National Parks and Wildlife Act 1974*.

# Heritage Consultant/Project Manager

Historical Heritage Assessment, Statement of Heritage Impact, Historical Archaeological Assessment and Aboriginal Cultural Heritage Assessment – Fennell Bay Rezoning, Fennell Bay. For Landcom.

This project involved the preparation of historical and Aboriginal heritage constraints assessments including Archaeological Research Design and Excavation Methodology and Aboriginal Test Excavation Methodology for the proposed rezoning of land in Fennell Bay. The methodology prepared was undertaken in consultation with Heritage NSW and involved consideration of both Aboriginal and non-Aboriginal archaeology, along with the potential for unrecorded burials. Biosis was successful in gaining an Aboriginal Heritage Impact Permit under the *National Parks and Wildlife Act 1974* and an Excavation Permit under the *Heritage Act 1977*.

### Heritage Consultant/Project Manager

Historical Archaeological Impact Assessment and Aboriginal Cultural Heritage Assessment – 197 Church Street, Parramatta. For Heritage 21 on behalf of Holdmark Property Group

This project required the assessment of Aboriginal and non-Aboriginal archaeology in a highly sensitive location within the Parramatta central business district. Following consultation with the Aboriginal community, Biosis developed a complex test excavation methodology with advice from Heritage NSW, which allowed for investigation of archaeological deposits which could have heritage significance at a State level. This methodology was approved under an Aboriginal Heritage Impact Permit under the *National Parks and Wildlife Act 1974* and an Excavation Permit under the *Heritage Act 1977*.

### Heritage Consultant/Project Manager

Heritage Interpretation Plan – 15-19 Crown Street, Wollongong. For Traders in Purple.

Following completion of historical archaeological excavations for a mixed-use multistorey residential building in Wollongong, Biosis prepared a Heritage Interpretation Plan for the site. This document had to account for significant disturbance which had removed archaeology which had the potential for heritage significance, and accounting for limited publicly accessible spaces for the presentation of heritage interpretation of the site. Wollongong City Council endorsed the proposed Heritage Interpretation Plan with minimal comments.



# **Key publications**

Understanding The Cumulative Impact of Development on 'Convict Hut' Sites Across the Parramatta CBD, Charlotte Allen, Maggie Butcher, Lauren Harley and Joshua Madden - Sydney Historical Archaeology Practitioners' Workshop (SHAP) 2022

# **Professional affiliations and memberships**

International Conference on Monuments and Sites (ICOMOS)



**Curriculum vitae** 

# **Crystal Garabedian**

Heritage Consultant Business Development Lead (NSW)

# Qualifications

- Bachelor of Arts (Honours)—Archaeology, University of Sydney
- Bachelor of Science—Geology and Geophysics, University of Sydney

### Other qualifications and training

- Provide First Aid (HLTAID003 and -009)
- General Construction Induction (white card)

# **Professional experience**



Crystal has been a member of the New South Wales Heritage team since September 2021. She completed her Bachelor of Science and Bachelor of Arts with Honours, with a focus on marine zooarchaeology, and hunter-gatherer economies.

Prior to her role in Biosis, Crystal worked as a research assistant at Macquarie and La Trobe Universities, where she was part of a software development project for field data collection. During this time Crystal also worked as a subcontracting archaeologist, undertaking cataloguing, photography, and detailed analyses of historic artefacts and marine invertebrate remains. Since 2020, she has also been a copyeditor for the Australasian Society for Historical Archaeology and their annual journal, *Australasian Historical Archaeology*.

Crystal has experience in Aboriginal community consultation, artefact analysis, background research, field surveys, project management, technical report writing, and test and salvage excavations throughout New South Wales. During her time with Biosis she has completed several Aboriginal Cultural Heritage Assessments, Statement of Heritage Impact reports, Heritage Interpretation Plans, Heritage Impact Statements and Heritage Management Plans, on time and within budget.

Crystal's capability stems from a thorough understanding of relevant legislation, which has aided her consulting on a range of projects, including residential developments and subdivisions, road infrastructure, industrial developments, mining projects, and renewable energy developments. She is also skilled in the provision of heritage advice and services, having provided such for Integrated Development Applications (IDAs), State Significant Infrastructure (SSI) and State Significant Development (SSD) projects, and for projects involving items of Local and Stage heritage significance.



# **Key project experience**

# **Project Manager/Heritage Consultant**

Historical Archaeological Assessment and Aboriginal Cultural Heritage Assessment. For Morrison Design Partnership Architects.

This SSD project involved the preparation of heritage reports in response to the Secretary's Environmental Assessment Requirements (SEARs). This included a Historical Archaeological Assessment and Aboriginal Cultural Heritage Assessment, which aided the consultation for the Connecting with Country component of the development.

### **Project manager/Heritage Consultant**

Statement of Heritage Impact and Aboriginal Cultural Heritage Assessment—270 Aldington Road, Kemps Creek. For AT&L, Fife Capital, and Stockland.

This project involved Aboriginal community consultation, preparation of a Statement of Heritage Impact, Aboriginal Cultural Heritage Assessment and Archaeological Report, and Aboriginal test excavations across the site. Completion of the impact assessment resulted in the need to obtain an Aboriginal Heritage Impact Permit under the National Parks and Wildlife Act 1974 to commence works.

### **Project manager/Heritage Consultant**

### Aboriginal Due Diligence Assessment—Callan Park, Lilyfield. For Greater Sydney Parklands Trust.

An Aboriginal Due Diligence Assessment including an archaeological survey with Aboriginal community participation was conducted within State Heritage Listed Callan Park. Heritage advice in the form of a constraints assessment informed the proposed vegetation clearance and maintenance works proposed to be undertaken.

### **Project manager/Heritage Consultant**

Aboriginal Cultural Heritage Assessment—Picnic Island, Windang. For Endeavour Energy.

Emergency electrical works located in proximity to an Aboriginal midden site triggered the need for an Aboriginal Cultural Heritage Assessment. This project involved extensive Aboriginal community consultation, test excavations and the successful application of an Aboriginal Heritage Impact Permit under the National Parks and Wildlife Act 1974

### **Project manager/Heritage Consultant**

Aboriginal Cultural Heritage Assessment and Heritage Management Plan—34–44 Park Road, Leppington. For Enspire Solutions.

An Aboriginal Cultural Heritage Assessment resulted in a program of test excavations that uncovered Aboriginal objects. An Aboriginal Heritage Impact Permit under the *National Parks and Wildlife Act 1974* was required and granted. Following an Integrated Development Application lodged by the client, the General Terms of Approval required a Heritage Management Plan, which was prepared and accepted by Liverpool City Council.

### **Project manager/Heritage Consultant**

Aboriginal Cultural Heritage Assessment—Towradgi Point, Towradgi. For Wollongong City Council.

An unexpected find of an Aboriginal Midden at Towradgi Point, Towradgi initiated an Aboriginal Cultural Heritage Assessment, and the need for an Aboriginal Heritage Impact Permit under the *National Parks and Wildlife Act 1974* to complete the works. This project also included monitoring and extensive Aboriginal community consultation.



# Appendix 3 Aboriginal consultation log

The draft HMP was sent out to all RAPs on 7 May 2024. The RAPs were given 28 days to review the document and provide comments, with a closure date of 4 June 2024. In total three responses were received. A copy of this correspondence can be found in Appendix 4.

### Table 8 Draft HMP responses

No.	Organisation	Date and type of contact	Date of response and type of contact	Response details
1	A1 Indigenous Services	07/05/2024: email	-	-
2	Amanda Hickey Cultural Services	07/05/2024: email	-	-
3	Bariyan Cultural Connections	07/05/2024: email	-	-
4	Barraby Cultural Services	07/05/2024: email	-	-
5	Bill Trewlynn	07/05/2024: email	-	-
6	Butucarbin Aboriginal Corporation	07/05/2024: email	-	-
7	Confidential Party 1	07/05/2024: email	-	
8	Confidential Party 2	07/05/2024: email	-	
9	Damo digs	07/05/2024: email	-	-
10	Deerubbin Local Aboriginal Land Council	07/05/2024: email	-	-
11	Didge Ngunawal Clan	07/05/2024: email	-	-
12	Goobah Development PTY LTD (Murrin Clan/Peoples)	07/05/2024: email	-	-
13	Goobah Development PTY LTD (Murrin Clan/Peoples)	07/05/2024: email	-	-
14	Guntawang Aboriginal Resources Incorporated	07/05/2024: email	28/05/2024: email	Hi Crystal, I have read this report through, what I would like to say is that any aboriginal artefact that is of significance should be recorded and protected. The Aboriginal Clans from the mountains travelled through these lands to meet with the other clan groups, due to the distance they travelled



No.	Organisation	Date and type of contact	Date of response and type of contact	Response details
				they must have stopped along the way and camped overnight or for a few days. I know that the land has been used for farming and gardening so the artefacts or remanence may not be on the surface they could be under layers of soil that has been transferred to this land. I have lived in this area for over 45 years so I know what this land has been used for. I am not sure will help? I just wanted to let you know that we belong to the land. GARI would like to be involved in this project if there is any excavation. Our sites officer Brad Maybury has years of experience to offer.
15	Kamilaroi Yankuntjatjara Working Group	07/05/2024: email	-	-
16	Konanggo Aboriginal Cultural Heritage Services	07/05/2024: email	-	-
17	Long Gully Cultural Services	07/05/2024: email	-	-
18	Muragadi Heritage Indigenous Corporation	07/05/2024: email	-	-
19	Ninnum	07/05/2024: email		-
20	Pearl Depoma	07/05/2024: email	20/05/2024: email	<ul> <li>Hello Crystal,</li> <li>Thank you for allowing me to register for the Aldington Road, Kemps Creek project.</li> <li>I have read and reviewed the Heritage Management Plan (HMP) for the project and at this stage do not wish to add any additional information or make any changes.</li> <li>I support the current HMP.</li> <li>Regards, Pearl Depoma</li> </ul>



No.	Organisation	Date and type of contact	Date of response and type of contact	Response details
21	Waawaar Awaa Aboriginal Corporation	07/05/2024: email	-	-
22	Wailwan Aboriginal Group	07/05/2024: email	-	-
23	Wallanbah Aboriginal Site Conveyancing	07/05/2024: email	-	-
24	Widescope Indigenous Group	07/05/2024: email	-	-
25	Yulay Cultural Services	07/05/2024: email	-	
26	Yurrandaali	07/05/2024: email	-	
27	Nattai Aboriginal Culture & Heritage Consultation Service	07/05/2024: email	24/05/2024: email	Hi Crystal, Nattai Aboriginal Culture & Heritage Consultation Service has viewed the ACHA draft document including the HMP and have no issue to raise. What I am somewhat confused by is the reference to "Dharawal" people/clan in context of the area. The area is Cabrogal/Dharug. With this in mind, I am curious to understand why this reference is in the draft document? Kind Regards, Alan Medhurst.
28	Thomas Dahlstrom Offers ACH value by using 3D Laser and Drone technology	07/05/2024: email	-	-
29	Murra Bidgee Mullangari Aboriginal Corporation	07/05/2024: email	-	-
30	Darug Custodian Aboriginal Corporation	07/05/2024: email	-	-



# Appendix 4 Aboriginal consultation

From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:39 PM
То:	ngunduwaa@live.com.au
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

You are receiving this email following on from your registration in the Aldington Road, Kemps Creek, New South Wales Aboriginal Cultural Heritage Assessment (ACHA). The project has identified Aboriginal cultural heritage and historical sites in need of management consideration. The management strategies of these sites have been detailed in a Heritage Management Plan (HMP). You can follow the link below to access the draft HMP:

### https://spaces.hightail.com/space/z3XAelliro

Please provide any feedback on the HMP before 5:00 pm Tuesday 4 June 2024.

Please do not hesitate to contact me if you require additional information or have any issues accessing the draft reports.

Kind regards, Crystal Garabedian

**Crystal Garabedian** She/Her Heritage Consultant and Business Development Lead (NSW)

0456 625 253
 Section 253
 Section 253
 CGarabedian@biosis.com.au

www.biosis.com.au



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Biosis acknowledges the Aboriginal and Torres Strait Islander people as Traditional Custodians of the country on which we live an We pay our respects to the Traditional Custodians and Elders past, present and future, and honour their connection to the land and

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:39 PM
То:	yurrandaali_cs@hotmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:39 PM
То:	yulayculturalservices@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:38 PM
То:	Widescope.group@live.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:38 PM
То:	kelvingoogieboney@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:38 PM
То:	waarlan12@outlook.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:38 PM
То:	Waawaar.awaa@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:38 PM
То:	pearl-depoma@hotmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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Heritage Consultant and Business Development Lead (NSW)

0456 625 253

- S CGarabedian@biosis.com.au
- www.biosis.com.au



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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:38 PM
То:	ninnum_group@outlook.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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### https://spaces.hightail.com/space/z3XAelliro

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Kind regards, Crystal Garabedian

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:37 PM
То:	muragadi@yahoo.com.au
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:37 PM
То:	Ethan3trewlynn@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:37 PM
То:	konanggo_consultancy@hotmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:37 PM
То:	philipkhan.acn@live.com.au
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:37 PM
То:	wenlissa01@hotmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:37 PM
То:	bunjil.smith@gmail.com
Subject:	FW: Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:36 PM
То:	goobahchts@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:33 PM
То:	didgengunawalclan@yahoo.com.au
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:33 PM
То:	srandall@deerubbin.org.au
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:33 PM
То:	damomorrison781@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:33 PM
То:	butuheritage@gmail.com
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Sent:	Tuesday, 7 May 2024 3:33 PM
То:	wtrewlynn@hotmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:33 PM
То:	barrabyculturalservices@gmail.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

You are receiving this email following on from your registration in the Aldington Road, Kemps Creek, New South Wales Aboriginal Cultural Heritage Assessment (ACHA). The project has identified Aboriginal cultural heritage and historical sites in need of management consideration. The management strategies of these sites have been detailed in a Heritage Management Plan (HMP). You can follow the link below to access the draft HMP:

### https://spaces.hightail.com/space/z3XAelliro

Please provide any feedback on the HMP before 5:00 pm Tuesday 4 June 2024.

Please do not hesitate to contact me if you require additional information or have any issues accessing the draft reports.

Kind regards, Crystal Garabedian

**Crystal Garabedian** She/Her Heritage Consultant and Business Development Lead (NSW)

0456 625 253 Signal CGarabedian@biosis.com.au

www.biosis.com.au



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# Crystal Garabedian She/Her

Heritage Consultant and Business Development Lead (NSW)

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Crystal Garabedian
Tuesday, 7 May 2024 3:32 PM
bariyan.culturalconnections@gmail.com
Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:32 PM
То:	amandahickey@live.com.au
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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From:	Crystal Garabedian
Sent:	Tuesday, 7 May 2024 3:31 PM
То:	cazadirect@live.com
Subject:	Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

Good afternoon,

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From:	Pearl Depoma
To:	Crystal Garabedian
Subject:	Re: Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)
Date:	Monday, 20 May 2024 9:08:34 PM

Hello Crystal,

Thank you for allowing me to register for the Aldington Road, Kemps Creek project.

I have read and reviewed the Heritage Management Plan (HMP) for the project and at this stage do not wish to add any additional information or make any changes.

I support the current HMP.

Regards

Pearl Depoma Managing Director M: 0404 158 006 A: Parramatta E: pearl-depoma@hotmail.com

Lives & Works on Dharug Country

Proud Kamilaroi and Torres Strait Islander Women.

I acknowledge the traditional custodians of country and recognise their continuing connection to land, waters, and community on which I am greatful to live, work and visit. I pay my respects to them, their cultures, and traditions. I honor our Elders both past and present and encourage our future generations to strive.

It always was and always will be, Aboriginal land. Our Ancestors live on, within us.

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Please consider the environment before printing this email.

On 7 May 2024 3:37 pm, Crystal Garabedian <CGarabedian@biosis.com.au> wrote:

Good afternoon,

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Please do not hesitate to contact me if you require additional information or have any issues accessing the draft reports.
Kind regards,
Crystal Garabedian
Crystal Garabedian She/Her Heritage Consultant and Business Development Lead (NSW)
0456 625 253         CGarabedian@biosis.com.au         www.biosis.com.au
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image189031.png

#### Hi Crystal,

I have read this report through, what I would like to say is that any aboriginal artefact that is of significance should be recorded and protected. The Aboriginal Clans from the mountains travelled through these lands to meet with the other clan groups, due to the distance they travelled they must have stopped along the way and camped overnight or for a few days. I know that the land has been used for farming and gardening so the artefacts or remanence may not be on the surface they could be under layers of soil that has been transferred to this land.

I have lived in this area for over 45 years so I know what this land has been used for.

I am not sure will help? I just wanted to let you know that we belong to the land.

GARI would like to be involved in this project if there is any excavation. Our sites officer Brad Maybury has years of experience to offer.

kind regards

Wendy Morgan CEO GARI 0414 964 657

From: Crystal Garabedian <CGarabedian@biosis.com.au> Sent: Tuesday, May 7, 2024 3:36 PM To: wenlissa01@hotmail.com <wenlissa01@hotmail.com> Subject: Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

#### Good afternoon.

You are receiving this email following on from your registration in the Aldington Road, Kemps Creek, New South Wales Aboriginal Cultural Heritage Assessment (ACHA). The project has identified Aboriginal cultural heritage and historical sites in need of management consideration. The management strategies of these sites have been detailed in a Heritage Management Plan (HMP). You can follow the link below to access the draft HMP:

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Please provide any feedback on the HMP before 5:00 pm Tuesday 4 June 2024.

Please do not hesitate to contact me if you require additional information or have any issues accessing the draft reports.

Kind regards, Crystal Garabedian Crystal Garabedian She/Her Heritage Consultant and Business Development Lead (NSW)

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#### Crystal Garabedian She/Her Heritage Consultant and Business Development Lead (NSW)

From:	Alan Medhurst
To:	Crystal Garabedian
Subject:	Re: Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)
Date:	Friday, 24 May 2024 8:54:27 AM
Attachments:	image862025.png
	image908868.png
	image488797.png
	image105237.png

#### Hi Crystal,

Nattai Aboriginal Culture & Heritage Consultation Service has viewed the ACHA draft document including the HMP and have no issue to raise

What I am somewhat confused by is the reference to "Dharawal" people/clan in context of the area. The area is Cabrogal/Dharug. With this in mind, I am curious to understand why this reference is in the draft document?

Kind Regards,

Alan Medhurst.

Nattai Aboriginal Culture & Heritage Consultation Service.

"Acknowledging Our Elders Past & Present"

e515764.pnc

From: Crystal Garabedian <CGarabedian@biosis.com.au> Sent: Tuesday, 7 May 2024 3:39 PM To: ngunduwaa@live.com.au <ngunduwaa@live.com.au> Subject: Aldington Road, Kemps Creek - Draft Heritage Management Plan (40309)

#### Good afternoon.

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Please do not hesitate to contact me if you require additional information or have any issues accessing the draft reports.

#### Kind regards, Crystal Garabedian

Crystal Garabedian She/Her Heritage Consultant and Business Development Lead (NSW)

0456 625 253 CGarabedian@biosis.com.au www.biosis.com.au

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#### Crystal Garabedian She/Her

Heritage Consultant and Business Development Lead (NSW)

0456 625 253

 CGarabequarues...
 www.biosis.com.au CGarabedian@biosis.com.au



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#### Crystal Garabedian She/Her

Heritage Consultant and Business Development Lead (NSW)

0456 625 253





# Appendix J Construction Traffic Management Plan



Construction Traffic Management Plan Mamre Road, Abbotts Road and Aldington Road Upgrade

Mamre Road Precinct 4/02/2025 P2264r03



Info@asongroup.com.au +61 2 9083 6601 Suite 17.02, Level 17, 1 Castlereagh Street, Sydney, NSW 2000

## **Document Control**

Project No	P2264
Project	Mamre Rd, Abbotts Rd and Aldington Rd Upgrade
Client	Land Owners Group East
File Reference	P2264r03v07 CTMP_Mamre Rd, Abbotts Rd and Aldington Rd Upgrade, Issue VII

#### **Revision History**

Revision No.	Date	Details	Author	Approved by
-	31/07/2024	Draft	E. Duan	J. Laidler
01	30/08/2024	Issue I	E. Duan	J. Laidler
02	17/09/2024	Issue II	E. Duan	J. Laidler
03	18/10/2024	Issue III	E. Duan	E. Duan
04	06/12/2024	Issue IV	E. Duan	J. Laidler
05	14/01/2025	Issue V	J. Laidler	J. Laidler
06	20/01/2025	Issue VI	J. D. Wu	J. D. Wu
07	04/02/2025	Issue VII	E. Duan	E. Duan

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## Contents

### Glossary

1	Introduction		
	1.1	Overview	1
	1.2	Project Representatives & Stakeholders	1
	1.3	Project History	1
	1.4	Project Details	3
	1.5	Authority Requirements	5
	1.6	Site Related Data	7
	1.7	Stakeholder Engagement	9
2	Prop	bosed Works and Staging	13
	2.1	Overview of Works	13
	2.2	Construction Hours	16
	2.3	Truck Routes	18
	2.4	Construction Site Access	28
	2.5	Temporary Traffic Management Method	31
	2.6	Risk Assessment	32
	2.7	Site Contact	32
	2.8	Works Zone	33
3	Traf	fic Management	34
	3.1	Cumulative Construction Vehicle Traffic Generation	34
	3.2	Minimising Traffic Impacts on Surrounding Network	34
	3.3	Vehicle Management	35
	3.4	Contractor & Heavy Vehicle Parking	35
	3.5	Pedestrian and Cyclist Management	35
	3.6	Fencing Requirements	36
	3.7	Traffic Control	36
	3.8	Authorised Traffic Controller	36
	3.9	Driver Awareness & Code of Conduct	36
	3.10	Worker Induction	37
4	Mon	itoring and Review	38
	4.1	Monitoring Program	38
	4.2	Work Site Inspections, Recording and Reporting	39
	4.3	Contingency Plan	41
	4.4	Communications Strategy	43



## **Contents Continued**

### **Figures**

Figure 1: LOG-E Development Sites	2
Figure 2: Site Overview	3
Figure 3: Site Location	4
Figure 4: Crash Location and Type (2018-2022)	8
Figure 5: TfNSW Approved 25/26m B-Double Routes	19
Figure 6: Construction Vehicle Route Plan - MAIU Stage 1 and 2 - Prior to Signal Installation	20
Figure 7: Construction Vehicle Route Plan - MAIU Stage 3 and 4 - After Signal Installation	21
Figure 8: Construction Vehicle Route Plan - AARU Phase 1 - Prior to Signal Installation	23
Figure 9: Construction Vehicle Route Plan - AARU Phase 1 - After Signal Installation	24
Figure 10: Construction Vehicle Route Plan - AARU Phase 2 - Prior to Signal Installation	26
Figure 11: Construction Vehicle Route Plan - AARU Phase 2 - After Signal Installation	27
Figure 12: Site Access - MAIU Stage 1 and 2 - Prior to Signal Installation	29
Figure 13: Site Access - MAIU Stage 3 and 4 - After Signal Installation	29
Figure 14: Site Access - AARU Phase 1	30
Figure 15: Construction Work Compound Area - AARU Phase 1	30
Figure 16: Site Access - AARU Phase 2	31

#### Tables

Table 1: Pro	ject Representatives and Stakeholders	1
Table 2: Sta	ging and Duration of Works	5
Table 3: Cor	ndition Requirements	5
Table 4: Loc	al Road Network	7
Table 5: Cra	ish History	8
Table 6: Pub	blic and Active Transport Vulnerable Road Users (VRU's)	9
Table 7: Sta	keholder Consultation Actions	9
Table 8: DPI	HI Comments – Dated 22 November 2024	10
Table 9: DPI	HI Comments – Dated 31 January 2025	11
Table 10: Pe	enrith City Council Comments – Dated 29 November 2024	12
Table 11: Co	onstruction works – Mamre Rd x Abbotts Rd	13
Table 12: AA	ARU Construction works – Phase 1	14
Table 13: AA	ARU Construction works – Phase 2	15
Table 14: Pr	oject Construction Programme	16
Table 15: Ho	purs of Work	16
Table 16: St	age 2 & 3 Hours of Work (Night Shift)	17
Table 17: Ac	ccess Protocols & Methodolgy	32
Table 18: Co	onstruction Contact	33
Table 19: Mo	onitoring & Reviews of CTMP	38
Table 20: Ex	cample Review of Activities	39
Table 21: Co	ontingency Plan	41
Table 22: Re	esponse Stratergy	43
Table 23: Co	ommunications Stratergy	44

### **APPENDICES**

- Appendix A. Driver Code of Conduct
- Appendix B. Risk Assessment
- Appendix C. Traffic Guidance Scheme
- Appendix D. Verification Checklist
- Appendix E. Evidence of Consultation



# Glossary

Acronym	Description
AV	Articulated Vehicle (as defined by AS2890.2:2018)
AARU	Abbotts Road and Aldington Road corridor upgrades
CCLR	Communications and Community Liaison Representative
CEMP	Construction Environmental Management Plan
Council	Penrith City Council
СТМР	Construction Traffic Management Plan
DPHI	Department of Planning, Housing and Infrastructure (formerly Department of Planning and Environment, DPE)
EIS	Environmental Impact Statement
ER	Environmental Representative
LOG-E	Land Owners Group East
MAIU	Mamre Road and Abbotts Road Intersection Upgrade
MRPWG	Mamre Road Precinct Working Group
RAV	TfNSW Restricted Access Vehicles
ROP	Road Occupancy Permit
SSD	State Significant Development
TCAWS	Transport for NSW Traffic Control at Work Sites Technical Manual
TfNSW	Transport for New South Wales
TGS	Traffic Guidance Scheme
TRRO	Temporary Road Reserve Occupancy
TTM	Temporary Traffic Management
veh/hr	Vehicle movements per hour (1 vehicle in & out = 2 movements)
VMS	Variable Message Sign
VOC	Verification of Competency
VRU	Vulnerable Road Users
WHS	Work, Health and Safety



# 1 Introduction

## 1.1 Overview

Ason Group has been engaged by AT&L on behalf of Land Owners Group East (LOG-E) to prepare a Construction Traffic Management Plan (CTMP) in regard to the proposed road for both Mamre Road and Abbotts Road Intersection Upgrade (MAIU) and Abbotts Road and Aldington Road Upgrade (AARU). Both pieces of construction are located at Mamre Road, Abbotts Road and Aldington Road, Kemps Creek (the Site).

This CTMP details the proposed construction management strategies which would provide for the safe and efficient completion of the proposed works while minimising construction traffic impacts on the surrounding road network and public road network users.

## 1.2 Project Representatives & Stakeholders

This report has been prepared by consultants who hold a SafeWork NSW Work Health & Safety Traffic (WHS) Control Work card, accredited for the 'Prepare a Work Zone Traffic Management Plan'. Details of the accredited consultants are provided below:

- James Laidler Ticket No. TCT0031686
- Emily Duan Ticket No. TCT1054771

This Construction Traffic Management Plan (CTMP) has been prepared to meet the requirements outlined in Appendix A and Appendix E, Section E.2 of the *Transport for NSW Traffic Control at Work Sites Technical Manual (Issue No. 6.1, Feb 2022) (TCAWS).* 

Through the preparation of this CTMP, the project representatives and stakeholders consulted in the development of the traffic management strategy are listed below.

TABLE 1: PROJECT REPRESENTATIVES AND STAKEHOLDERS			
Name	Organisation	Role	
Ignacio Vazquez Hume	AT&L	Civil Engineer / Superintendent	
James Laidler	Ason Group	Principal Traffic Engineer	
Emily Duan	Ason Group	Traffic Engineer	

## 1.3 Project History

LOG-E are represented by ESR Australia, Fife Kemps Creek, and Frasers Property Industrial, who are each developing parcels of land within the Mamre Road Precinct (MRP).

The relevant LOG-E sites within the MRP are shown below, in Figure 1.





Figure 1: LOG-E Development Sites

Ason Group has worked on behalf of LOG-E to deliver the modelling assessment of the proposed road network which forms part of the relevant applications. The results of this operational modelling assessment have been documented within the following report:

 Ason Group, P1815 – Mamre Road Precinct – LOG East – Revised Modelling, P1815m02\_v4 MRP\_LOG East 2026 Revised Modelling, 19 September 2022 (LOG-E Modelling Memo).

Transport for New South Wales (TfNSW) endorsed this modelling assessment and, on 21 April 2023, Stage 1 of the Westlink Estate (SSD-9138102<sup>1</sup>) was approved by DPHI.

Ason Group had also prepared 2 Construction Traffic Impact Assessments (CTIA) in support of the Development Application (DA) required. The traffic impact assessment have been documented within the following reports:

- Ason Group, P2264r01v6 CTIA Abbotts Rd\_Aldington Rd Upgrade, 14 June 2024 (LOG-E AARU CTIA)
- Ason Group, P2264r02v2 CTIA Mamre Rd\_Abbotts Rd Upgrade, 30 January 2024 (LOG-E MAIU CTIA)

2 | P2264r03v07 CTMP\_Mamre Rd, Abbotts Rd and Aldington Rd Upgrade, Issue VII



<sup>&</sup>lt;sup>1</sup> <u>https://www.planningportal.nsw.gov.au/major-projects/projects/westlink-industrial-estate-stage-1</u>

## 1.4 Project Details

### 1.4.1 Project Description

The breakdown for the construction works for the Site is as follows:

- Construction of external road upgrades including Mamre Road and Abbotts Road intersection works,
- Widening of Abbotts Road from the Mamre Road intersection, and
- Widening of a section of Aldington Road.

The separable portions plan prepared by AT&L is shown below at a reduced scale.



Figure 2: Site Overview

#### 1.4.2 Site Location

The Site is located at Mamre Road / Abbotts Road intersection, Abbotts Road and Aldington Road, Kemps Creek and is legally known as Lots 111, 112, 113, 114 and 115 DP 1296469 and Lot 10 DP 1296455.

The Site is located approximately 4 km north-west of the future Western Sydney International (Nancy-Bird Walton) Airport (WSA), 13 km south-east of the Penrith CBD and 40 km west of the Sydney CBD.

The location of the Site is presented in Figure 3.







### 1.4.3 Proposed Construction Activity / Works

The duration of proposed construction works is provided in **Table 2**. The separable portions plan is outlined in **Figure 2**. Construction shall not commence until the CTMP required by Condition A1 is approved.



TABLE 2: STAGING AND DURATION OF WORKS			
Works	Phase	Duration	Description
MAIU	-	12 months	Construction of Mamre Road and Abbotts Road intersection
AARU	1	12 months	Construction of Abbotts Road and a segment of Aldington Road
AARU	2	19 months	Construction of Aldington Road

## 1.5 Authority Requirements

The planning requirements include the conditions, and the mitigation / management measures outlined in the EIS. The planning requirements and the corresponding traffic and access management measures applicable to Traffic Management for the Project are listed below in **Table 3**.

Legislative and other requirements applicable to all aspects of the project are included in the Construction Environmental Management Plan.

### 1.5.1 Conditions of Consent

Conditions of Consent (CoC) for the LOG-E Development Sites have been provided and are applicable to the Site. The Conditions relevant to this CTMP are reproduced in **Table 3** with responses to each provided.

TABLE 5. CONDITION RECORDENTS					
Condition No.	Requirement	Response			
Part D	Construction Environmental Management Plan				
D25 (b)	a traffic management plan prepared in consultation with TfNSW and Council, detailing the measures to ensure road safety and network efficiency during the External Road Works, a Driver Code of Conduct, a program to monitor the effectiveness of the measures and adherence to specified routes, and procedures for notifying residents and local schools of any disruptions to routes;	This Construction Traffic Management Plan has been prepared to satisfy this condition.			
Part B	Construction Traffic Management Plan				
B1	Prior to the commencement of construction of the development, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary. The plan must form part of the CEMP required by condition C2 and must:	-			
(a)	be prepared by a suitably qualified and experienced person(s);	Consultants from Ason Group are suitably qualified Traffic Engineers, with relevant "Prepare a Work Zone Traffic Management			



		Plan" accreditation. Refer to <b>Section 1.2</b> for relevant qualifications.
(b)	be prepared in consultation with Council and TfNSW;	TfNSW and Council shall be consulted following preparation of this plan, with relevant updates (if required) made following the consultation. Proof of this consultation will be provided within <b>Appendix E</b> of the report.
(c)	detail the measures that are to be implemented to ensure road safety and network efficiency during construction works to: (i) ensure access to the site and road safety and network efficiency is maintained, (ii) manage cumulative construction traffic from other concurrent construction works within the Mamre Road Precinct, and (iii) address necessary interim traffic safety controls and management measures, including consideration of any traffic control measures required to manage traffic entering Mamre Road in the period before Mamre Road/Abbotts Road intersection construction is complete;	<ul> <li>Section 3 details the traffic management measures which will ensure site and road safety, and network efficiency is maintained.</li> <li>The cumulative construction traffic impact assessment has been undertaken separately, and included within the following reports:</li> <li>Ason Group, <i>P2264r01v6 CTIA Abbotts Rd_Aldington Rd Upgrade</i>, 14 June 2024 (LOG-E AARU CTIA).</li> <li>Ason Group, <i>P2264r02v2 CTIA Mamre Rd_Abbotts Rd Upgrade</i>, 30 January 2024 (LOG-E MAIU CTIA)</li> <li>Traffic Guidance Schemes have been prepared and provided within <b>Appendix C</b>.</li> </ul>
(d)	detail heavy vehicle routes, access and parking arrangements;	The Site access arrangements and vehicle routes are outlined in <b>Section 2.3</b> and <b>Section 2.3</b> . The parking arrangements is outlined in <b>Section 3.3</b> and <b>Section 3.4</b> .
(e)	<ul> <li>include a Driver Code of Conduct to:</li> <li>(i) minimise the impacts of earthworks and construction on the local and regional road network;</li> <li>(ii) minimise conflicts with other road users;</li> <li>(iii) minimise road traffic noise; and</li> <li>(iv) ensure truck drivers use specified routes, including entering and exiting Mamre Road via Abbotts Road and not Bakers Lane;</li> </ul>	A Driver Code of Conduct is a requirement of and included within this CTMP. The Drivers Code of Conduct (included in <b>Appendix A</b> ) addresses ways to minimise the impacts on the road network, with other road users, ensure truck routes are utilised and to manage pedestrian movements. Construction vehicles will not utilise Bakers Lane for access or egress.
(f)	include a program to monitor the effectiveness of these measures; and	The Contractor shall include a program to monitor the effectiveness of the measures proposed to minimise impacts to the public road network. These programs will be completed in accordance with <b>Section 4.1</b> and <b>Table 19</b> .
(g)	if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.	LOG-E will notify the community liaison representative when traffic conditions are expected to exceed parameters with within Condition Green of <b>Table 21</b> . Measures that may be included within the strategy have been identified within <b>Section</b> <b>4.1</b> and <b>Section 4.4</b> .



		Meetings are to be undertaken on a regular basis to keep key stakeholders informed of any upcoming events.
B2	The Applicant must:	-
(a)	not commence construction until the Construction Traffic Management Plan required by condition A1 is approved by the Planning Secretary; and	Noted and reiterated in <b>Section 1.4.3</b> .
(b)	implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of construction.	Refer <b>Section 4.1</b> of this Plan which outlines requirement for this Plan to be updated regularly.

## 1.6 Site Related Data

1.6.1 Road Details

The key roads surrounding the Site are as identified within Figure 3 and summarised in Table 4.

TABLE 4. LOCAL ROAD NETWORK					
Road Name	Section	Speed Limit	Parking	Traffic Volumes and Peak Times	Urban / Rural
Mamre Road	Great Western Highway and M4 & Elizabeth Dr	60-80 km/hr	No	AM Peak: 1,391 <sup>1</sup> veh/hr PM Peak: 1,541 <sup>1</sup> veh/hr	Urban
Aldington Road	Abbotts Rd & Bakers Ln	60 km/hr	No	-	Urban
Abbotts Road	Mamre Rd & Aldington Rd	60 km/hr	No	-	Urban
Elizabeth Drive	M7 & The Northern Rd, Hume Highway & Mamre Rd	80 km/hr	No	2021 ADT: 26,516 <sup>2</sup> veh/day	Urban
Bakers Lane	Mamre Rd & Aldington Rd	60 km/hr (40 km/hr during school peaks)	No	-	Urban
Erskine Park Road	Mamre Rd & M4	70 km/hr	No	-	Urban

## TABLE 4: LOCAL ROAD NETWOR

Notes: 1) According to Ason Group surveys conducted in 2018 on Mamre Road north of Bakers Lane 2) Transport for NSW Traffic Volume Viewer

### 1.6.2 Crash History

A review of TfNSW crash database has been undertaken to establish the crash history in the vicinity of the Site; the crash history for the 5-year period 2018 to 2022 (inclusive) is outlined below in **Table 5** and **Figure 4**. No discernible patterns relating to a trend or incident type were observed for crashes and suggests there are no inherent safety issues within the Section of Mamre Road, Abbotts Road or Aldington Road, near the Site.

TABLE 5: CRASH HISTORY			
Year	Location	RUM Code	Injury/Death
2018	Aldington Road	71 – Off rd right => obj	1 x moderate injury
2018	Mamre Road, 100m north of Mamre Rd x Abbots Rd intersection	20 – Head On	1x serious injury 1 x minor injury
2022	Mamre Rd, 100m south of Mamre Rd x Abbots Rd intersection	73 – Off rd right => obj	1 x serious Injury

Source: TfNSW Crash Statistics Website



Figure 4: Crash Location and Type (2018-2022)



Vulnerable road users (VRU) are road users not in a car, bus or truck. In the event of a crash, VRUs have little to no protection from crash forces, therefore, need to be addressed within this CTMP. The table below provides context to VRUs surrounding the Site.

TABLE 6: PUBLIC AND ACTIVE TRANSPORT VULNERABLE ROAD USERS (VRU'S)			
Road Name	Pedestrian	Cycling	Public Transport
Mamre Road	No	Yes Within shoulder	None close to Site
Aldington Road	No	No	No
Abbotts Road	No	No	No
Elizabeth Drive	No	Yes Within shoulder	Yes Bus Stops
Bakers Lane	No	Yes Within shoulder	No

## 1.7 Stakeholder Engagement

### 1.7.1 Stakeholder Engagement Plan

Prior to commencement of construction, LOG-E will consult with any relevant stakeholders regarding construction schedules and truck routes during construction. Any identified conflicts or issues that arise will be promptly raised with stakeholders at the earliest opportunity. In particular, the Mamre Road Precinct Working Group (MRPWG) serves as a dedicated forum to consult with key stakeholders, providing a platform to discuss construction programs, potential impacts, and outcomes from previous engagements.

Proof of this consultation will be provided within **Appendix E** of the report. Furthermore, LOG-E commits to adhering to the actions and procedures outlined in **Section 1.7.2**.

TABLE 7: STAKEHOLDER CONSULTATION ACTIONS		
Stakeholder	Action	
TfNSW	LOG-E to submit CTMP to stakeholder. LOG-E to liaise with stakeholder to address comments and re-submit final CTMP.	
Penrith City Council	LOG-E to submit CTMP to stakeholder. LOG-E to liaise with stakeholder to address comments and re-submit final CTMP.	
Transport Management Centre (TMC)	Tied to consultation with TfNSW. Any consultation will be undertaken in tandem with TfNSW.	



### 1.7.2 Stakeholder Notification

In the event that any disruptions (unexpected or in advance) to roadways / footpath occur as a result of construction works, the procedure outlined below is to be followed:

- If any future disruptions to roadways / footpaths are required, Council / TfNSW is to be notified first and depending on the extent of the disruption, the Contractor is to notify affected property occupiers using letter drops and Variable Message Sign (VMS).
- If any unforeseen disruptions to roadways / footpaths occur, Council / TfNSW is to be notified first and depending on the extent of the disruption the contractor is to notify affected property occupiers via traffic controllers and VMS.
- In the event that heavy vehicle damage to Council / TfNSW assets / infrastructure, contractors will notify Penrith Council's Traffic & Transport team and / or Assets Branch.

#### 1.7.3 Transport for New South Wales

A copy of the CTMP was submitted to TfNSW for their review and feedback on 31 August 2024. Any subsequent comments from TfNSW will be documented as necessary.

# 1.7.4 Department of Planning, Housing and Infrastructure Comments - 22 November 2024

The Department of Planning, Housing, and Infrastructure (DPHI) was provided a copy of the CTMP as part of the consultation process. DPHI provided comments on 22 November 2024 which are shown and addressed in **Table 8**.

ltem No.	DPHI Comments	Ason Group Responses
1	Condition D25(b) requires the CTMP to be prepared in consultation with TfNSW and Council. The evidence of consultation provided in Table 7 and Appendix E of the CTMP is unclear whether TfNSW or Council provided any feedback on the plan and how this was responded to.	Noted. The details of consultation with TfNSW and Council have been provided in <b>Section 1.7.3</b> and <b>Section 1.7.6</b> and <b>Appendix E</b> .
2	Figures 6 to 11 and in the Code of Conduct refer to 'the Mirvac site'. Please update to refer to the correct site.	The Project Site has been clearly identified (and highlighted blue) in these figures. The commentary relating to the ' <i>Mirvac site'</i> – now labelled as 'Aspect Industrial Estate' within figures 6 to 11 – provides additional commentary around turning restrictions from Mamre Road to the neighbouring Mirvac site and does not refer to the Site as being the Mirvac Site.
3	Clarify the location of the work compound and parking area, especially for Phase 1, and how this will be accessed.	Noted. The AARU Phase 1 site compound will be located within the ESR development area and be accessed from Abbotts Road, as outlined in

#### TABLE 8: DPHI COMMENTS - DATED 22 NOVEMBER 2024



		<b>Figure 15</b> . The site compound has adequate area to accommodate the parking requirements for all construction workers, and will shift as construction progresses.
4	Section 4 of the CTMP states that the plan will be subject to a monthly review, while Table 16 states it will be 'bi-monthly'. Please clarify.	Noted. This CTMP shall be subject to a review every 2 months. <b>Section 4</b> has been updated for clarity.
5	Clarify who are the 'stakeholders' referred to in Table 20 and the timing for notification of planned traffic disruptions.	The details of the stakeholders and the timing for notification of planned traffic disruptions have been outlined within the <i>Community Consultation</i> <i>Strategy and Complaints Handling Procedure,</i> <i>Appendix K of the CEMP.</i>
6	For ease of use, it is recommended that the Driver Code of Conduct document (particularly truck routes) be updated for each phase of works, rather than providing drivers with multiple routes in one document.	The truck routes provided in the Driver Code of Conduct are for 3 stages of the same work package, even though they may request separate approvals. Each route has been shown on one single page in <b>Appendix A</b> Driver Code of Conduct.
7	The notes on TGS plans at Appendix C refer to Castlereagh Road.	Noted. The TGS has been updated to refer to Mamre Road.
8	In Appendix C, the Phase 1 - Detour Layout (sheet AG10) diverts traffic on to Bakers Lane. Please clarify if this is local traffic or if it also includes construction traffic for the road works or other construction projects that utilising Abbotts and Aldington Roads. Construction or operational traffic is not permitted to use Bakers Lane.	<ul> <li>Noted.</li> <li>Abbotts Road will not be closed at any point, hence there is no detour needed. The TGS has been updated, refer to Appendix C for details.</li> <li>Vehicles should not use Bakers Lane to access the Site. Refer to Section 2.3 for details.</li> </ul>

## 1.7.5 Department of Planning, Housing and Infrastructure Comments - 31 January 2025

The Department of Planning, Housing, and Infrastructure (DPHI) was provided a copy of the updated CTMP (P2264r03v06), in response to their comments provided on 22 November 2024. Following that DPHI provided additional comment on 31 January 2025 which is shown and addressed in **Table 9**.

#### TABLE 9: DPHI COMMENTS - DATED 31 JANUARY 2025

ltem No.	DPHI Comments	Ason Group Responses
1	Condition D31 identifies works permitted to be undertaken in accordance with the Out of Hours Works Protocol. D31(c) refers to 'other works required to be completed at night for safety reasons, <b>as detailed in an approved CTMP</b> .' It is noted that the CTMP, including section 2.2, does not clearly detail any specific works to be completed at night for safety reasons.	Noted. The details of the works to be completed at night has been provided in <b>Section 2.2</b> .



### 1.7.6 Penrith City Council Comments

Penrith City Council (the Council) was provided a copy of the CTMP as part of the consultation process. The Council provided comments on 29 November 2024 which are shown and addressed in **Table 10**.

TABLE 10:       PENRITH CITY COUNCIL COMMENTS – DATED 29 NOVEMBER 2024			
ltem No.	Council Comments	Ason Group Responses	
1 (a)	It is noted that the CTMP refers to the largest vehicle as truck and dog accessing the site. It would be appropriate for this CTMP to also make reference to the OTMP prepared for Warehouse 1 (Toll) as larger vehicles may be required to access the site to service Warehouse 1.	Noted. Larger vehicles may access Warehouse 1 - Westlink Toll Facility during its operation has been demonstrated in <b>Section 2.1.4</b> .	
1 (b)	Further, Appendix C – TGS – has a plan on page 74 showing a detour route along Aldington Road and Bakers Lane. Can you please clarify the intention of this plan noting that no construction or heavy vehicles are permitted to use Bakers Lane?	<ul> <li>Noted.</li> <li>Abbotts Road will not be closed at any point, hence there is no detour needed. The TGS has been updated, refer to Appendix C for details.</li> <li>Vehicles should not use Bakers Lane to access the Site. Refer to Section 2.3 for details.</li> </ul>	



# 2 Proposed Works and Staging

## 2.1 Overview of Works

### 2.1.1 Construction Programme and Activities - MAIU

The details of the construction work relating to the MAIU are shown in **Table 11**. It is estimated that the total duration of the works will be approximately 12 months from the commencement date.

### TABLE 11: CONSTRUCTION WORKS - MAMRE RD X ABBOTTS RD

Criteria	Response
Description of Key Activities	Construction of the signalised intersection of Mamre Road and Abbotts Road intersection
Max. Vehicle Size	Truck and dog
Work Zones	Ν
Crane (if yes, provide further details)	Ν
Truck Access Requirements	All trucks shall access via the dedicated site access on Mamre Rd.
Vehicle access / egress in a forward direction (Y / N)	Y
Out of Hours Deliveries (Y/N)	Ν
Contractor Parking	Y - On site parking provided
Pedestrian Control	Traffic barriers to separate works and public traffic. No pedestrian access.
Public Transport Services Affected	Ν
Road Occupancy Requirements (If yes, provide further details)	Y - Council/TfNSW approval required prior to commencement of the construction works.
Lane or Footpath Closures (If yes, provide further details)	Y - Lane closures no existing footpath
Verge Works	Y - full extend of work zone
Traffic Guidance Scheme	Appendix C



The details of the construction work Phase 1 of AARU are shown in **Table 12**. It is estimated that the total duration of the Phase 1 works will be approximately 12 months from the commencement date.

TABLE 12: AARU CONSTRUCTION WORKS - PHASE 1		
Criteria	Response	
Description of Key Activities	Duplication works of Abbotts Road Duplication works of Aldington Road	
Max. Vehicle Size	Truck and dog	
Work Zones	Ν	
Crane (if yes, provide further details)	Ν	
Truck Access Requirements	All vehicles shall access the Site via a dedicated access on Abbotts Rd	
Vehicle access / egress in a forward direction (Y / N)	Y	
Out of Hours Deliveries (Y/N)	Ν	
Contractor Parking		
Contractor Farking	Y - On site parking provided	
Pedestrian Control	Y - On site parking provided Traffic barriers to separate works and public traffic. No pedestrian access.	
Pedestrian Control Public Transport Services Affected	Y - On site parking provided Traffic barriers to separate works and public traffic. No pedestrian access. N	
Pedestrian Control Public Transport Services Affected Road Occupancy Requirements (If yes, provide further details)	Y - On site parking provided Traffic barriers to separate works and public traffic. No pedestrian access. N Y - Council/TfNSW approval required prior to commencement of the construction works.	
Pedestrian Control Public Transport Services Affected Road Occupancy Requirements (If yes, provide further details) Lane or Footpath Closures	Y - On site parking provided Traffic barriers to separate works and public traffic. No pedestrian access. N Y - Council/TfNSW approval required prior to commencement of the construction works. Y - Lane closures	
Pedestrian Control Public Transport Services Affected Road Occupancy Requirements (If yes, provide further details) Lane or Footpath Closures (If yes, provide further details)	Y - On site parking provided Traffic barriers to separate works and public traffic. No pedestrian access. N Y - Council/TfNSW approval required prior to commencement of the construction works. Y - Lane closures no existing footpath	
Pedestrian Control Public Transport Services Affected Road Occupancy Requirements (If yes, provide further details) Lane or Footpath Closures (If yes, provide further details) Verge Works	Y - On site parking provided Traffic barriers to separate works and public traffic. No pedestrian access. N Y - Council/TfNSW approval required prior to commencement of the construction works. Y - Lane closures no existing footpath Y - full extent of work zone	



The details of the construction work Phase 2 of AARU are shown in **Table 13**. It is estimated that the total duration of the Phase 2 works will be approximately 19 months from the commencement date.

TABLE 13: AARU CONSTRUCTION WORKS - PHASE 2		
Criteria	Response	
Description of Key Activities	Duplication of Aldington Road	
Max. Vehicle Size	Truck and dog	
Work Zones	Ν	
Crane (if yes, provide further details)	Ν	
Truck Access Requirements	All vehicles shall access the Site via a dedicated access on Abbotts Rd	
Vehicle access / egress in a forward direction (Y / N)	Y	
Out of Hours Deliveries (Y/N)	Ν	
Contractor Parking	Y - On site parking provided	
Pedestrian Control	Traffic barriers to separate works and public traffic. No pedestrian access.	
Public Transport Services Affected	Ν	
Road Occupancy Requirements	Y -	
(If yes, provide further details)	Council/TfNSW approval required prior to commencement of the construction works.	
Lane or Footpath Closures	Y - Lane closures	
(If yes, provide further details)	no existing footpath	
Verge Works	Y - full extent of work zone	
Traffic Guidance Scheme	Appendix C	

### 2.1.4 Overall Construction Timeline

Construction of the MAIU is planned to commence in December 2024, with the total period of construction works anticipated to be approximately 12 months.

Construction of the AARU is planned to commence in October 2024, with the total period of construction works anticipated to be approximately 22 months.

The indicative construction programme (subject to relevant approvals) for the MAIU and AARU is indicated in **Table 14** below.



TABLE 14: PROJECT CONSTRUCTION PROGRAMME						
Site / Corridor Upgrade	Stage	Estimated Commencement	Estimated Completion	Duration		
MAIU	Stage 1	December 2024	February 2025	3 months		
	Stage 2	March 2025	June 2025	4 months		
	Stage 3	July 2025	October 2025	4 months		
	Stage 4	November 2025	November 2025	1 month		
AARU Phase 1	Stage 1	October 2024	February 2025	5 months		
	Stage 2	March 2025	May 2025	3 months		
	Stage 3	June 2025	September 2025	4 months		
AARU Phase 2	Early Works	January 2025	May 2024	5 months		
	Stage 1	January 2025	December 2025	12 months		
	Stage 2	January 2026	July 2026	7 months		

The largest construction vehicle accessing the Site is a Truck and Dog. However, larger vehicles may access Warehouse 1 - Westlink Toll Facility (290-308 Aldington Road, Kemps Creek) during its operation.

## 2.2 Construction Hours

Based on the information provided to Ason Group, a summary of the construction hours is shown in **Table 15** which is in accordance with the construction hours of the condition D29:

TABLE 15: HOURS OF WORK					
Activity	Day	Time			
Construction works	Monday – Friday	7 am to 6 pm			
	Saturday	8 am to 1 pm			

Notwithstanding, a number of stages throughout the construction process will require works to be undertaken at night. It is expected that these works will primarily be undertaken at night to minimise the impacts to the broader road network.

There is a large volume of Construction traffic operating in the Mamre road precinct specifically within Abbotts and Aldington Road. If the proposed works cannot be undertaken safely during the normal operating hours, outlined above, then some works may be required to be undertaken outside of standard hours.

It is anticipated that any works being undertaken outside the hours outlined above, an out of work hours work permit would be required from TfNSW and/or Penrith City Council will be obtained prior to commencement of construction works and be subject to separate Road Occupancy Licences (ROL). A separate TGS shall also be developed and approved for these additional works.



	TABLE 16:	STAGE 2 &	3 HOURS	OF WORK	(NIGHT SHIFT)
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Activity	Day	Time
Construction works	Monday – Friday Saturday	8 pm to 5 am

Condition D30 allows that works outside of the hours identified may be undertaken in the following circumstances:

- works that are inaudible at the nearest sensitive receivers;
- works agreed to in writing by the Planning Secretary;
- for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or
- where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.

Notwithstanding the conditions above, Condition D31 states that the following works may be undertaken out of hours, in accordance with the Out of Hours Works Protocol approved under relevant condition:

- installation of drainage infrastructure;
- asphalting; and
- other works required to be completed at night for safety reasons, as detailed in an approved CTMP. As advised by the Project Team, this includes the follows:
  - Phase 1 Temporary Pavement Works
    - The construction of temporary asphalt pavement is necessary to support the completion of the permanent works. These temporary improvements will widen and enhance the existing pavement geometry, facilitating safer traffic movements.
    - To ensure the safety for both workers and road users, a single-lane (stop-slow) traffic control should be implemented. Based on the construction traffic volumes during the day outlined in the Construction Traffic Impact Assessment (Ason Group, *P2264r01v6 CTIA Abbotts Rd\_Aldington Rd Upgrade*, 14 June 2024), it is safer to implement these works at night. This approach will also reduce the impact on local traffic, as the work will be completed in a shorter period.
    - A Traffic Guidance Scheme (TGS) will be approved by Penrith City Council and is included in **Appendix C**.
    - This scope will involve the following activities:
      - o Preparation for asphalt pavement works
      - Temporary pavement construction
      - o Asphalt pavement construction
      - o Stormwater infrastructure
      - o Line marking & signage
      - o Barrier placement/relocation



- Phase 1 Permanent Works
  - Implementation of traffic staging. Given the need to occupy part of the existing roadway to resequence traffic management measures, it is safer to complete these works at night when traffic flow is lower.
  - Activities during these works include:
    - o Barrier placement/relocation
    - o Asphalt placement
    - o Line marking & signage

The details of the Out of Hours Works Protocol have been prepared and provided within Section 5.3 of Mamre – Abbotts Intersection Upgrade (MAIU) and Aldington – Abbotts Road Upgrade (AARU), Construction Noise and Vibration Management Plan, prepared by SLR, dated 03 February 2025.

## 2.3 Truck Routes

It is expected that all heavy vehicles will access the Site via the approved TfNSW Restricted Access Vehicles (RAV) Map, regardless of vehicles size. Any oversized or over-mass vehicles, which would be required to arrive from Mamre Road and Abbotts Rd, travelling to the Site will be required to obtain a permit from the NHVR.

As can be shown in **Figure 5**, the RAV Map illustrates that B-doubles are capable of traveling to and from the Site within approved routes (Although it is not expected that vehicles larger than 20m Articulated Vehicles will access the Site during the bulk earthworks phase of works).





Figure 5: TfNSW Approved 25/26m B-Double Routes

### 2.3.1 Truck Routes - MAIU

All vehicles relating to construction shall adhere to the following.

- The construction access shall be via the dedicated site access on Mamre Road.
- Vehicles should not use Bakers Lane to access the Site.
- It is noted that vehicles are not allowed to make U-turn at all times.
- It is noted that vehicles are not allowed to make right turns at Mamre Road and Abbotts Road intersection at Stage 1 and 2. The access route for MAIU construction works is shown in **Figure 6**.
- It is allowed to have full movements after the signal be installed at Mamre Road and Abbotts Road intersection at Stage 3 and 4. The access route for MAIU construction works is shown in **Figure 7**.



• Cameras installed at the intersection to record all traffic movements and capture/report any illegal traffic movements.



Figure 6: Construction Vehicle Route Plan - MAIU Stage 1 and 2 - Prior to Signal Installation

As discussed, all construction vehicles will enter the Site via Mamre Road. It is anticipated that all heavy vehicles will access Site via the following routes:

- Arrival Trips:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site.



- Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site.
- Departure Trips:
  - Route 1: From the Site, onto Mamre Road then south to Elizabeth Drive and left to the Westlink M7 and sub-regional routes to the east.
  - Route 2: From the Site, onto Mamre Road then south to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.



Figure 7: Construction Vehicle Route Plan - MAIU Stage 3 and 4 - After Signal Installation



As discussed, all construction vehicles will enter the Site via Mamre Road. It is anticipated that all heavy vehicles will access Site via the following routes:

- Vehicles from North:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site, and departure from the Site by the same route.
- Vehicles from South:
  - Route 1: From Westlink M7 and sub-regional routes to the east, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Badgerys Creek and The Northern Road to the west, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.

A copy of the approved routes will be distributed by the Contractor to all drivers before their arrival to Site. No trucks are to be queued on local roads. Mobile phones, two-way radios or application-based solutions should be used to coordinate truck arrivals.

### 2.3.2 Truck Routes – AARU Phase 1

All vehicles relating to construction shall adhere to the following.

- The construction access shall be via the dedicated site access on Abbotts Road.
- Vehicles should not use Bakers Lane to access the Site.
- It is noted that vehicles are not allowed to make U-turn at all times.
- It is noted that vehicles are not allowed to make right turns at Mamre Road and Abbotts Road intersection prior to signal be installed at the intersection. The access route for AARU Phase 1 construction works is shown in **Figure 8**.
- It is allowed to have full movements after the signal be installed at Mamre Road and Abbotts Road intersection. The access route for AARU Phase 1 construction works is shown in **Figure 9**.
- Cameras installed at the intersection to record all traffic movements and capture/report any illegal traffic movements.







Figure 8: Construction Vehicle Route Plan - AARU Phase 1 - Prior to Signal Installation

As discussed, all construction vehicles will enter the Site via Abbotts Road. It is anticipated that all heavy vehicles will access Site via the following routes:

- Arrival Trips:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and left into Abbotts Road.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and left into Abbotts Road.



- Departure Trips:
  - Route 1: From the Site, onto Abbotts Road then south on Mamre Road to Elizabeth Drive and left to the Westlink M7 and sub-regional routes to the east.
  - Route 2: From the Site, onto Abbotts Road then south on Mamre Road to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.



Figure 9: Construction Vehicle Route Plan - AARU Phase 1 - After Signal Installation

As discussed, all construction vehicles will enter the Site via Mamre Road. It is anticipated that all heavy vehicles will access Site via the following routes:



- Vehicles from North:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site, and departure from the Site by the same route.
- Vehicles from South:
  - Route 1: From Westlink M7 and sub-regional routes to the east, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Badgerys Creek and The Northern Road to the west, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.

A copy of the approved routes will be distributed by the Contractor to all drivers before their arrival to Site. No trucks are to be queued on local roads. Mobile phones, two-way radios or application-based solutions should be used to coordinate truck arrivals.

#### 2.3.3 Truck Routes – AARU Phase 2

All vehicles relating to construction shall adhere to the following.

- The construction access shall be via the dedicated site access on Aldington Road.
- Vehicles should not use Bakers Lane to access the Site.
- It is noted that vehicles are not allowed to make U-turn at all times.
- It is noted that vehicles are not allowed to make right turns at Mamre Road and Abbotts Road intersection prior to signal be installed at the intersection. The access route for AARU Phase 2 construction works is shown in **Figure 10**.
- It is allowed to have full movements after the signal be installed at Mamre Road and Abbotts Road intersection. The access route for AARU Phase 2 construction works is shown in **Figure 11**.
- Cameras installed at the intersection to record all traffic movements and capture/report any illegal traffic movements.





Figure 10: Construction Vehicle Route Plan - AARU Phase 2 - Prior to Signal Installation

As discussed, all construction vehicles will enter the Site via Aldington Road. It is anticipated that all heavy vehicles will access Site via the following routes:

- Arrival Trips:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road, left into Abbotts Road, and left into Aldington Road.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road, left into Abbotts Road, and left into Aldington Road.


- Departure Trips:
  - Route 1: From the Site, onto Aldington Road, then onto Abbotts Road then south on Mamre Road to Elizabeth Drive and left to the Westlink M7 and sub-regional routes to the east.
  - Route 2: From the Site, onto Aldington Road, then onto Abbotts Road then south on Mamre Road to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.



Figure 11: Construction Vehicle Route Plan - AARU Phase 2 - After Signal Installation

As discussed, all construction vehicles will enter the Site via Mamre Road. It is anticipated that all heavy vehicles will access Site via the following routes:



- Vehicles from North:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site, and departure from the Site by the same route.
- Vehicles from South:
  - Route 1: From Westlink M7 and sub-regional routes to the east, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Badgerys Creek and The Northern Road to the west, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.

A copy of the approved routes will be distributed by the Contractor to all drivers before their arrival to Site. No trucks are to be queued on local roads. Mobile phones, two-way radios or application-based solutions should be used to coordinate truck arrivals.

#### 2.4 Construction Site Access

Access location will vary by construction works and stages, which has been detailed in following sections.

An on-site turning area shall be provided so that movement across the Site is in a forward direction at all times. The location of this turning area will vary during the course of construction and shall be managed on-site by the contractor through standard on-site protocols.

The largest vehicle that will access the Site during construction would be a truck and dog combination, which the existing Mamre Road and Abbotts Road and Aldington Road will accommodate. Further, construction management protocols will require that any vehicle entering the Site access road will have right of way in order to ensure that there is no queuing on Mamre Road.

Access to emergency vehicles shall be maintained at all times. An emergency vehicle parking space will be maintained at all times and left vacant unless occupied by an emergency vehicle.

#### 2.4.1 Site Access - MAIU

All access to the Site by construction personnel will be to/from the dedicated site access on Mamre Road. Access location is demonstrated in **Figure 12** and **Figure 13**.





Figure 12: Site Access - MAIU Stage 1 and 2 - Prior to Signal Installation



Figure 13: Site Access - MAIU Stage 3 and 4 - After Signal Installation

#### 2.4.2 Site Access - AARU Phase 1

All access to the Site by construction personnel will be to/from the dedicated site access on Mamre Road. Access location is demonstrated in **Figure 14**.





Figure 14: Site Access - AARU Phase 1

The AARU Phase 1 construction work compound area will be located within the ESR development area and access from Abbotts Road, as outlined in **Figure 15**.



Figure 15: Construction Work Compound Area - AARU Phase 1



All access to the Site by construction personnel will be to/from the dedicated site access on Mamre Road. Access location is demonstrated in **Figure 16**.



Figure 16: Site Access - AARU Phase 2

### 2.5 Temporary Traffic Management Method

Traffic management shall be undertaken in accordance with the methodology outlined within the Traffic Guidance Scheme (TGS), **Table 17** and attached within **Appendix C**. All road users are expected to be directed around the worksite to physically separate the road user from any hazards within the worksite.



TABLE 17: ACCESS PROTOCOLS & METHODOLGY				
Procedure	Responsibility	Notes		
Access to the Site Is the Vehicle Entering YES NO Discuss & Understand Call-up Protocol	Site Manager / Foreman / Traffic Controller	<ul> <li>ENTRY PROTOCOL:</li> <li>Via UHF radio, channel agreed at prestart</li> <li>1. Vehicle to advise gate controller when 200m from gate via UHF — vehicle to ensure flashing lights are on</li> <li>2. Vehicle advises of metres from gate in 50m lots (i.e., 150 m from gate)</li> <li>3. Gate Controller advises safe to enter, vehicle enters site and decelerates behind barriers</li> <li>4. If not safe to enter, vehicle is to continue driving and not stop / queue on the public roadway</li> <li>5. Vehicle uses road network to return and make another attempt at entering site</li> </ul>		
Vehicle Exiting YES NO Discuss & Understand Call-up Protocol END	Site Manager / Foreman / Traffic Controller	<ul> <li>EXIT PROTOCOL:</li> <li>Via UHF radio, channel agreed at prestart</li> <li>1. Vehicle driver to radio Gate</li> <li>Controller to ensure exit is possible – vehicle to ensure flashing lights are on</li> <li>2. If no issues, driver to proceed to exit gate and merge with traffic.</li> <li>3. If driver cannot exit, Gate Controller to order vehicle to hold until gate is clear.</li> <li>Gate Controller is not to stop traffic on the public road network</li> </ul>		

#### 2.6 Risk Assessment

A risk assessment is aimed to identify the hazards and risks associated with the works. The purpose of this risk assessment is to determine the controls required for the protection of the road workers and road users. A risk assessment has been completed and is attached in **Appendix B**.

### 2.7 Site Contact

The key contact for the Site during Construction have been outlined below. This list is considered a live document; therefore, any changes/additions shall be made at the time.



TABLE 18: CONSTRUCTION CONTACT			
Contact	MAIU and AARU Community Consultation Liaison Representative		
	The Community Consultation and Liaison Representative role will be managed by the following team:		
Names/s	<ul> <li>Esther Diffey – Technical Director +61 423 686 002</li> </ul>		
	<ul> <li>Marco Biamonti – Senior Consultant +61 457 075 133</li> </ul>		
	<ul> <li>Stephanie Skordas – Senior Consultant +61 434 279 633</li> </ul>		
Email	info@mamrealdingtonupgrades.com.au		
Phone	1800960071		
Website	mamrealdingtonupgrades.com		

Moreover, the Site shall be clearly posted with a sign erected in a prominent position on the site perimeter, it is to be maintained & removed at the completion of works.

- The sign must contain the following information, Name, address, contractor licence number and telephone number of the principal contractor, including a telephone number at which the person may be contacted outside working hours, or owner-builder permit details.
- A statement stating that 'unauthorised entry to the work site is prohibited".
- A notice with contact names and mobile phone numbers of site supervisors be displayed at the entrance to the Site for community to make contacts regarding work activities.



### 2.8 Works Zone

No Work Zone is required as all construction works will occur within the Site boundary. In the event that there is a need for a Works Zone, it will be subject to its own approval.

A Road Occupancy Licence (ROL) from Council / TfNSW will be required for the entire construction duration. It is the responsibility of the Contactor to obtain the ROL.



# 3 Traffic Management

### 3.1 Cumulative Construction Vehicle Traffic Generation

The detailed construction staging, and programme has been provided in Section 2.1.

The cumulative construction traffic impact assessment has been undertaken and approved. The traffic impact assessment has been documented within the following report:

- Ason Group, P2264r01v6 CTIA Abbotts Rd\_Aldington Rd Upgrade, 14 June 2024 (LOG-E AARU CTIA)
- Ason Group, P2264r02v2 CTIA Mamre Rd\_Abbotts Rd Upgrade, 30 January 2024 (LOG-E MAIU CTIA)

These LOG-E CTIAs have been prepared using the information available at the time of its preparation. Any new construction activities will subject to further cumulative construction traffic impact assessment.

The conclusion of the LOG-E CTIAs is that the Mamre Road / Abbotts Road intersection will be able to satisfactorily accommodate the cumulative construction traffic associated with the infrastructure upgrade and LOG-E development within vicinity of the AARU, during all stages of construction.

Following that, the construction traffic management measures are detailed in this CTMP to be implemented at the time of construction.

#### 3.2 Minimising Traffic Impacts on Surrounding Network

The impacts of construction traffic and the mitigating measures to be implemented are outlined below.

• **Construction Traffic in Mamre Road, Abbotts Road and Aldington Road**: Construction traffic will use the existing Mamre Road / Abbotts Road intersection to access the work area for the works, connecting to the wider network via Mamre Road.

ANY CONSTRUCTION TRAFFIC MUST UNDERTAKE LEFT-IN, LEFT-OUT FROM THE MAMRE ROAD / ABBOTTS ROAD INTERSECTION ONLY UNTIL SIGNALS ARE INSTALLED AT MAMRE ROAD, ABBOTTS ROAD INTERSECTION FOR STAGE 3 & 4 OF MAIU CONSTRUCTION WORKS.

To ensure the impacts to motorists within the area are kept to a minimum, construction traffic will be contained with the prescribed volumes.

- **Management of deliveries**: The Contractor will manage deliveries to ensure that construction vehicles, particularly heavy vehicles, will not exceed approved limits.
- Safety During Construction: Safety to motorists and pedestrians throughout the area will be maintained during construction through the preparation and execution of TGS's. A range of TGS's are to be implemented by the contractor CTMPs, for each access throughout construction, to identify all reasonably foreseeable hazards, assess the hazards, and manage the hazards as best possible by either eliminating or minimising the risks. TGS's shall be monitored and updated accordingly throughout the project.
- **Reporting**: Reporting and monitoring of movements during peak periods are to be undertaken to ensure that drivers are adhering to restricted times, and to ensure that the approved traffic generation, and subsequent impacts on the road network, are in line with those approved.



### 3.3 Vehicle Management

In accordance with TfNSW requirements and the Conditions of Consent, all drivers are to be familiar with the Driver Code of Conduct before attending the Site. A copy of the Code is included in **Appendix A**.

All vehicles transporting loose materials will have the entire load covered and/or secured to prevent any large items, excess dust or dirt particles depositing onto the roadway during travel to and from the Site. Public roads used by construction vehicles are to be kept clean at all times. All vehicles enter and exit the Site in a forward direction.

All subcontractors must be inducted by the lead contractor to ensure that the procedures are met for all vehicles entering and exiting the construction site. The lead contractors will monitor the roads leading to and from the Site and take all necessary steps to rectify any road deposits caused by the Site vehicles.

Vehicle movements to, from and within the Site shall do so in a manner, which does not create unreasonable or unnecessary noise or vibration. No tracked vehicles will be permitted or required on any paved roads, without prior approvals. Public roads, access points and internal parking areas will not be obstructed by any materials, unapproved vehicles, refuse skips or the like, under any circumstances. At no time shall heavy vehicles and bins associated with the development park on local roads or footpaths in the vicinity of the Site.

Prior to accessing the Site, heavy vehicles may stop and wait, as necessary, away from the Site. If this is the case then all vehicles must abide by all traffic, road and environmental legislations. All vehicles are wholly contained on site before being required to stop. At no stage shall queuing occur on the public road network. A schedule for deliveries of goods and materials will be established prior to that day, with Traffic Controllers to maintain radio contact with construction vehicles at all times. The anticipated deliveries will be made known to site personnel at daily prestart meetings.

#### 3.4 Contractor & Heavy Vehicle Parking

Contractors will likely drive since there is no easily accessible public transport in close proximity to the Site. Onsite parking will be available. Suitable pedestrian connectivity shall be maintained between the work areas and this contractor parking at all times.

A dedicated area for the parking of contractor and heavy vehicles shall be developed and updated / relocated as the project progresses. The number of parking spaces provided within the Site throughout the construction will change as construction progresses, which will likely increase as construction progresses.

During each iteration of car parking location, there shall be enough parking to accommodate the expected maximum for that particular stage.

It is expected that the location of dedicated light and heavy vehicle parking areas shall change as the construction of the internal road network progresses, therefore the location of parking spaces shall be outlined within the Driver Code of Conduct and outlined within the regular toolbox meetings. Parking will be regularly monitored to ensure that no queuing onto roadway.

#### 3.5 Pedestrian and Cyclist Management

Abbotts Road and Aldington Road does not have any footpaths, bicycle paths or shared paths fronting the Site.



However, in the unlikely event that there are pedestrians or cyclists needing to cross an access driveway they will be halted by an accredited Traffic Controller while construction vehicles are entering or exiting the Site. Once the construction vehicles are clear, the Traffic Controller can allow pedestrians/cyclists to continue along their journey.

#### 3.6 Fencing Requirements

Fencing requirements will consist of fencing with shade cloth to the site boundary.

(Temporary exclusion fencing (chain mesh fencing) will be erected along the entire boundary of the Site and will be maintained for the duration of the construction program.)

The fencing is to ensure unauthorised persons are kept out of the Site.

### 3.7 Traffic Control

A site-specific TGS is provided in **Appendix C** for the Site access following the completion of the temporary access.

It should be noted that an accredited Traffic Controller shall be on-site to supervise construction vehicles passing general traffic.

#### 3.8 Authorised Traffic Controller

There is a requirement for authorised traffic controllers to be present throughout the construction. The responsibilities include:

- Implementation of the TGS.
- Pedestrian and cyclist management, to ensure that adverse conflicts between vehicle movements and pedestrians do not occur.
- Supervision of all vehicle movements across pedestrian footpaths at all times, and
- Supervision of all loading and unloading of construction materials during the deliveries in the construction phase of the project.

Refer to **Appendix C** for the TGS for details of the proposed work zone, location of traffic controllers and associated traffic management measures.

#### 3.9 Driver Awareness & Code of Conduct

All drivers shall be made aware and adhere to the Driver Code of Conduct, outlined in Appendix A.



### 3.10 Worker Induction

All workers and subcontractors engaged on-site would be required to complete a site induction. The induction will include permitted access routes to and from the construction site for all vehicles, as well as standard environmental, work, health and safety (WHS), driver protocols and emergency procedures.

Any workers required to undertake works or traffic control within the public domain must be suitably trained and covered by adequate and appropriate insurances.



# 4 Monitoring and Review

#### 4.1 Monitoring Program

This CTMP will be subject to a review every 2 months and will be updated accordingly. Regular reviews will be undertaken by the on-site coordinator during implementation and execution of this CTMP. Monitoring of this CTMP shall also be picked up in the Environmental checklists, with any incidents being reported within the weekly site meeting. The monitoring shall be undertaken in accordance with Condition A1(f), and Condition A1(g).

All and any reviews undertaken should be documented, however key considerations regarding the review of the CTMP shall be:

- To ensure the implementation of the CTMP and TGS's are consistent with the intent of this report, and that the most recent version of the CTMP and TGS (as approved by the Planning Secretary) is being implemented.
- Tracking deliveries against the volumes outlined within report. Deliveries will be tracked against approved volumes and will keep a vehicle log including Rego & time of entry for the purpose of assessing the effectiveness of these monitoring programs.
- It is expected the Contractor will undertake a truck and car count/review to ensure volumes are within Condition Green of **Table 21**, and will be undertaken once a month. In addition, the Contractor is required to retain a log of all vehicles accessing the Site on a daily basis.
- To identify any shortfalls and develop an updated action plan to address issues that may arise during construction (Parking and access issues)
- To regularly monitor the approved truck routes as outlined within this CTMP.
- To ensure TGS's are updated (if necessary) by "Prepare a Work Zone Traffic Management Plan" card holders to ensure they remain consistent with the set-up on-site.
- Regular checks to ensure all loads are entering and leaving site covered as outlined within this CTMP.
- A Dilapidation report shall be undertaken periodically to assess the condition of the road and note whether there has been any reduction in quality of the road as result of construction vehicles. Any defects identified within the road reserve must be forwarded via Council's Portal for maintenance, when reasonably practicable.

As such the table below provides triggers to monitor and review this CTMP.

Type of Review	Frequency	Considerations	
		The scheduled CTMP review must consider the following:	
		CTMP and TGS are approved;	
Cabadulad	The scheduled CTMP review must be undertaken bi-monthly (every 2 months) or as specified otherwise	<ul> <li>Identify required variations to the TGS, and ensure that they are updated, recorded, and approved;</li> </ul>	
		<ul> <li>Review any departures or variations of the CTMP and/or TGS to ensure they have been documented and approved;</li> </ul>	
ooneddied		<ul> <li>Speed control effectiveness; and</li> </ul>	
		<ul> <li>Construction vehicle entry/egress suitability, with no queuing on the public road network at any time.</li> </ul>	
		<ul> <li>Construction vehicle daily / peak hour movements are compliant with approved volumes, with bi-monthly reviews of the contractor's daily logbook of vehicles required.</li> </ul>	

#### TABLE 19: MONITORING & REVIEWS OF CTMP



		Periodic checks to ensure that heavy vehicles are using the correct access route
		<ul> <li>Refer to Noise and Vibration Management Plan for checks of noise generating items.</li> </ul>
	The change generated review must be	<ul> <li>The change generated CTMP review must consider the following:</li> <li>The work site is operating safely;</li> <li>Delineation is effective with appropriate signage installed for</li> </ul>
Change Generated Review	implementing new traffic stages,	<ul><li>changed conditions;</li><li>Safe passage is provided for all road users;</li></ul>
	construction-based	<ul> <li>Road Safety Audits are arranged or confirmed as required</li> <li>Accountability for approval and inspection is well understood</li> </ul>
	activities.	and documented
		Any non-compliance must be reported to immediately to the supervisor. A non-compliance is anything other than 'Condition Green' as outlined within Table 21.
Non- Compliance,	The Non-Compliance, post-incident or near	All workplace incidents must be reported immediately to the supervisor, who is to determine responsibility for investigating the incident. The incident and investigation must also be recorded in the incident reporting system of Transport.
Post Incident or	miss review must be	The post incident or near miss CTMP review must consider:
Near Miss Review	an incident or near	Causal factors;
	miss.	<ul> <li>Contributory factors or changes required; and</li> </ul>
		<ul> <li>Identified changes to TGS are completed, approved, recorded, and communicated. For any incidents or near miss (where required) a safety alert must also be prepared and distributed by the Transport project manager to share learnings with other work sites.</li> </ul>

This monitoring process is expected to form part of the monitoring plan required to be included as part of the overarching CEMP of which this CTMP forms a part.

The roadway (including footpath) must be kept in a serviceable condition for the duration of construction. At the direction of Council, undertake remedial treatments such as patching at no cost to Council.

#### 4.2 Work Site Inspections, Recording and Reporting

Recording and reporting of the monitoring programs shall be done in accordance with Section E.3, E.4 and E.5 of the TCAWS Manual. As such, the structure, schedule, and frequency of these activities have been considered and identified.

To inspect, review and audit the temporary traffic management (TTM) arrangements implemented on site, the following actions are to be undertaken by suitably qualified personnel in accordance with TCAWS 6.1 requirement during all phases of construction, being:

TABLE 20: EXAMPLE REVIEW OF ACTIVITIES			
Activity			Frequency or Details
Shift Inspections	□ Yes	□ No	



Regular Inspections	□ Yes	□ No	
TMP Review	□ Yes	□ No	
Road Safety Audit	□ Yes	□ No	
Other	□ Yes	□ No	
Comments			

Given that the length of construction and that no regular works have been proposed outside of the Site, bimonthly TTM inspections is considered to be sufficient.

#### 4.2.1 Incident Management

For the purposes of this CTMP, an 'incident' is an occurrence or set of circumstances that causes or threatens to cause material harm and which may or may not be or cause a non-compliance. Furthermore, a 'non-compliance' is an occurrence, set of circumstances or development that is a breach of the consent.

All incidents related to traffic, including those of the Principal Contractor, subcontractors, and/or visitors that occur during construction works will be managed in conjunction with the requirements outlined in LOG-E's Incident and Non-compliance Response and Handling Procedure.

Whilst it is noted that key Contractors will be implementing their own environmental management system procedures and processes, LOG-E will be responsible for ensuring that these systems and processes satisfy the requirements of the CEMP, including the incident management components. The Contractor will be responsible for providing all necessary documentation with regards to the incident investigation and close-out actions where required. The timing of the provision of this documentation is to align with LOG-E requirements.

LOG-E's Project Manager must be notified immediately of any environmental incident or near miss related to traffic. Such incidents may include, but not limited to:

- Vehicle crash or injury resulting from construction traffic related to the project.
- Failure to correctly implement required traffic controls for planned activities.
- Queuing onto Abbotts Road, in breach of the requirements set out under this CTMP.
- Spill of any dangerous goods or hazardous substance to ground or water.
- Substantiated complaints received from members of the community or regulatory authorities relating to traffic management.
- Land-based off-site sediment loss to the environment, including sediment tracking onto the roadway.

LOG-E's Project Principal will be responsible for all notifiable environmental incidents in line with the regulatory notification requirements as per the CEMP.

All environmental incidents will be reported immediately to DPHI in writing via the Major Projects website after LOG-E becomes aware of the incident. Any notification to DPHI must identify the development, including the application number, and set out the location and nature of the incident.

In the event of a notifiable non-compliance incident arising, LOG-E will notify DPHI in writing (via the Planning Portal) within 7 days. Any notification to DPHI must

- identify the development, including the application number,
- set out the condition of approval that the development is non-compliant with,



- the way in which it does not comply,
- the reasons for the non- compliance (if known) and
- what actions have been taken, or will be taken, to address the non-compliance.

#### 4.3 Contingency Plan

A contingency plan shall be established by the Contractor and is to be included in the overarching CEMP, in accordance with Condition C1(e). Notwithstanding, **Table 21** outlines an indicative plan to be undertaken by the builder in the event that the monitoring program identifies the management plan is not effective in managing the construction impacts. Please refer to the Noise and Vibration Management Plan for any applicable contingency plans for noise and/or vibration management.

TABLE 21: CONTINGENCY PLAN						
Risk		Condition Green	Condition Amber	Condition Red		
Construction Movements	Trigger	Both peak hour and daily Construction traffic volumes are in accordance with volume and time constraints as outlined within <b>Section</b> <b>2.1</b> and <b>Section 2.1.4</b> .	Construction traffic volumes exceed programmed Peak volumes but is within permissible volume constraints.	Construction traffic volumes exceed permissible volume and time constraints.		
	Response	No response required	<ul> <li>Review and investigate construction activities, and where appropriate, implement additional remediation measures such as:</li> <li>Review CTMP and update where necessary</li> <li>Provide additional training.</li> </ul>	<ul> <li>As with Condition Amber, plus;</li> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report or non- compliance report to government agencies and to the Environmental Representative (ER).</li> <li>Stop all transportation into and out of the Site.</li> </ul>		
Queuing	Trigger	No queuing identified	Queuing identified within site, but not on to public road	Queuing identified on the public road		
	Response	No response required Continue monitoring program	Review the delivery schedule prepared by the builder. If drivers are not following the correct schedule, then they should be provided with additional training	<ul> <li>As with Condition</li> <li>Amber, plus</li> <li>Review and investigate construction activities.</li> </ul>		



			and an extra copy of the Driver Code of Conduct	<ul> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report nor non- compliance report to government agencies and to the ER.</li> </ul>
				• Temporary halting of activities and resuming when conditions have improved.
				• Stop all transportation into and out of the Site.
				• Review CTMP and update where necessary, provide additional training.
Traffic Guidance Scheme	Trigger	No observable issues (TGS implements according to plan)	Minor inconsistencies with TGS to onsite operations (such as covered signs, missing signs, fallen cones, etc.)	Near miss or incident occurring regardless of / as a result of the TGS being implemented
	Response	No response required	Traffic Controller to amend TGS on site and to keep a log of all changes	Stop work until an investigation has been undertake into the incident. There are to be changes made to the TGS to ensure that the safety of all workers, students and civilians are catered for.
Dust	Trigger	No observable dust	Minor quantities of dust in the air and tracking on to the road	Large quantities of dust in the air and tracking on to the road
	Response	No response required	<ul> <li>Review and investigate construction activities and respective control measures, where appropriate. Implement additional remedial measures, such as:</li> <li>Deployment of additional water sprays</li> <li>Relocation or</li> </ul>	<ul> <li>As with Condition Amber.</li> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies.</li> <li>Implement relevant</li> </ul>
			<ul> <li>modification of dust- generating sources</li> <li>Check condition of vibrating grids to</li> </ul>	implement relevant responses and undertake immediate review to



	ensure they are functioning correctly.	avoid such occurrence in future.
	Temporary halting of activities and resuming when conditions have improved	

### 4.4 Communications Strategy

A communications strategy shall be established by the Head Contractor and is included in the overarching CEMP (refer to the community consultation strategy prepared separately).

A Communications and Community Liaison Representative (CCLR) shall be elected and shall be responsible for ensuring that the appropriate management response and handling procedures are instigated and carried through in the event of an environmental complaint.

All employees who are made aware of a complaint, either verbal or written, are to immediately notify the Contractor's Project Manager, who will then contact the CCLR. Upon becoming aware of a complaint, the protocol outlined below will be followed.

Ref	Protocol	Action
1	Record and acknowledge	Any employee who takes receipt of a complaint, either verbal or written, are to immediately notify the Contractor's Project Manager who will then contact the Communications and Community Liaison Representative. The Contractor's Project Manager will be available 24 hours a day, seven days a week and have the authority to stop or direct works. In the normal course of events, the first contact for complaints will usually be made in person or by telephone.
		The complainant's name, address, and contact details, along with the nature of the complaint, will be requested. If the complainant refuses to supply the requested information, a note will be made on the form and complainant advised of this.
2	Assess and prioritise	The CCLR will prioritise all complaints by severity for the risk to health and safety and will attempt to provide an immediate response via phone or email.
3	Investigate	An on-site investigation will be initiated in an attempt to confirm details relevant to the complaint and the cause of the problem. Any monitoring information and/or records at and around the time of the complaint will be reviewed for any abnormality or incident that may have resulted in the complaint.
4	Action or rectify	Once the cause of the complaint has been established, every possible effort will be made to undertake appropriate action to rectify the cause of the complaint and mitigate any further impact. The CCLR will assess whether the complaint is founded or unfounded and delegate the remediation of the issue to the Contractor's Project Manager for
		action, as required.
5	Respond to Complainant	The CCLR will oversee the rectification of the issue and respond to the complainant once the issue has been resolved.

#### TABLE 22: RESPONSE STRATERGY



		The complainant will be provided with a follow up verbal response on what action is proposed within two hours during night-time works (between the hours of 6:00 pm and 10:00 pm) and 24 hours at other times.
		Where a complaint cannot be resolved by the initial or follow-up verbal response, a written response will be provided to the complainant within ten days.
6	Record	It is imperative that an assessment of the situation is carried out and documented to minimise the potential for similar complaints in the future. On this basis, every complaint received is to be recorded in the Community Correspondence Register. A copy of the completed form will be maintained for at least five years.
7	Preventative Action	Once the complaint has been suitably handled, appropriate measures will be identified and implemented to negate the possibility of re-occurrence. The Community Correspondence Register is not finalised until the preventative actions are completed and recorded on the form.

In addition to the above, the CCLR is to notify the community liaison representative when traffic is expected to exceed the parameters set within "Condition Green" of **Table 21**. Notwithstanding, **Table 23** outlines an indicative communication strategy to ensure that adequate communication with key stakeholders have been met.

#### TABLE 23: COMMUNICATIONS STRATERGY

Risk	Impact	Comms Channel
Wider Traffic Disruption	Wider community and stakeholders informed through local and wider advertising and notification	
Construction related traffic	Ensure construction crews use traffic routes identified in the Traffic Management Plan, and	Stakeholder Meetings Stakeholder email blast
	Ensure residents in area are notified in advance to any traffic changes that may affect them	

Furthermore, ongoing communication will be undertaken so that all stakeholders are kept up to date of works and potential impacts.



# Appendix A. Driver Code of Conduct

### Drivers Code of Conduct

Safe Driving Policy for Mamre Road, Abbotts Road and Aldington Road Upgrade.

### **Construction Vehicle Routes**

All Drivers MUST follow the approved routes to and from the Site, as shown and discussed below.





Stage 1 and 2 - Prior to Signal Installation at Mamre Rd and Abbotts Rd Intersection

- Arrival Trips:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site.
- Departure Trips:
  - Route 1: From the Site, onto Mamre Road then south to Elizabeth Drive and left to the Westlink M7and sub-regional routes to the east.
  - Route 2: From the Site, onto Mamre Road then south to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.



#### Stage 3 and 4 - After Signal Installation at Mamre Rd and Abbotts Rd Intersection



- Vehicle from North:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site, and departure from the Site by the same route.
- Vehicles from South:
  - Route 1: From Westlink M7 and sub-regional routes to the east, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Badgerys Creek and The Northern Road to the west, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.



#### Truck Routes – AARU Phase 1



Prior to Signal Installation at Mamre Rd and Abbotts Rd Intersection

- Arrival Trips:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and left into Abbotts Road.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and left into Abbotts Road.
- Departure Trips:
  - Route 1: From the Site, onto Abbotts Road then south on Mamre Road to Elizabeth Drive and left to the Westlink M7 and sub-regional routes to the east.
  - Route 2: From the Site, onto Abbotts Road then south on Mamre Road to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.



After Signal Installation at Mamre Rd and Abbotts Rd Intersection



- Vehicle from North:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site, and departure from the Site by the same route.
- Vehicles from South:
  - Route 1: From Westlink M7 and sub-regional routes to the east, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Badgerys Creek and The Northern Road to the west, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.



#### Truck Routes – AARU Phase 2



Prior to Signal Installation at Mamre Rd and Abbotts Rd Intersection

- Arrival Trips:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road, left into Abbotts Road, and left into Aldington Road.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road, left into Abbotts Road, and left into Aldington Road.
- Departure Trips:
  - Route 1: From the Site, onto Aldington Road, then onto Abbotts Road then south on Mamre Road to Elizabeth Drive and left to the Westlink M7 and sub-regional routes to the east.
  - Route 2: From the Site, onto Aldington Road, then onto Abbotts Road then south on Mamre Road to Elizabeth Drive and right to Badgerys Creek and The Northern Road to the west.



After Signal Installation at Mamre Rd and Abbotts Rd Intersection



- Vehicle from North:
  - Route 1: From M4 Western Motorway, southbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Westlink M7, westbound on Old Wallgrove Road, Lenore Drive and Erskine Park Road, then southbound along Mamre Road and into the Site, and departure from the Site by the same route.
- Vehicles from South:
  - Route 1: From Westlink M7 and sub-regional routes to the east, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.
  - Route 2: From Badgerys Creek and The Northern Road to the west, then northbound along Mamre Road and into the Site, and departure from the Site by the same route.



It should be noted that vehicles are **NOT** allowed to:

- Using Bakers Lane to access the Site.
- Illegal U-turn event or right turns at Mamre Road and Abbotts Road intersection until signal be installed at the intersection. Cameras installed at the intersection to record all traffic movements and capture/report any illegal traffic movements.

#### Consequences of Non-Conformance

The below activities in any vehicles will be considered as a breach of conduct:

- Reckless or dangerous driving causing injury or death.
- Driving whilst disqualified or not correctly licensed.
- Drinking or being under the influence of drugs while driving.
- Failing to stop after an incident.
- Loss of demerit points leading to suspension of licence.
- Any actions that warrant the suspension of a licence.
- Exceeding the speed limit in place on any permanent or temporary roads.
- Undertaking traffic illegal U-turn event or right turns at Mamre Road and Abbotts Road intersection.

Any above-mentioned activities will result in removal from site. All vehicles blacklisted from accessing sites when captured in an illegal traffic event.

Any breaches of the CTMP and Driver Code of Conduct may be considered a breach of development consent and penalties such as fines and/or prosecution may apply.

#### Objectives of Drivers Code of Conduct

- To minimise the impact of earthworks and construction on the local and regional road network; and
- Minimise conflict with other road users; and
- Minimise road traffic noise; and
- Ensure truck drivers use specified routes.

#### Purpose of Drivers Code of Conduct

The code of conduct requires that while driving any vehicle for work-related purposes. Drivers are to be issues with a copy of the Drivers Code of Conduct, and must comply with all of the following:

- Demonstrate safe driving and road safety activities.
- Abide by traffic, road, and environmental legislations.
- Follow site signage and instructions.
- Drivers must only enter and exit the Site via the approved entry and exit points and travel routes.



#### **Driver Responsibilities**

All Drivers on site must:

- Be responsible and accountable for their actions when operating a company vehicle or driving for the purposes of work.
- Display the highest level of professional conduct when driving a vehicle at all times.
- Ensure they have a current driver licence for the class of vehicle they are driving, and this licence is to be carried at all times.
- Immediately notify their supervisor or manager if their drivers' licence has been suspended, cancelled, or has had limitations applied.
- Comply with all traffic and road legislation when driving.
- Assess hazards while driving.
- Undertake daily pre-start checks of oil, tyre pressures, radiator, and battery levels of company vehicles they regularly used.
- Drive within the legal speed limits, including driving to the conditions.
- Not drive outside of the approved heavy vehicle routes. All drivers must obey weight, length and height
  restrictions imposed by the National Vehicle Regulator, and other Government agencies. Heavy
  Vehicles shall adhere to the selected routes.
- Be cognisant of the noise and emissions requirements imposed within the EIS, and in a broader sense, the NSW/ Australian Road Rules. Works must be constructed with the aim of achieving the construction noise management levels detailed in the Interim Construction Noise Guideline.
- Do not queue on public roads unless a prior approval has been sought.
- Be aware that at no time may a tracked plant be permitted or required on a paved road.
- Never drive under the influence of alcohol or drugs, including prescription and over the counter medication if they cause drowsiness to do so will merit disciplinary measures.
- All drivers to report to their supervisor if they have been prescribed medication prior to the start of work.
- Wear a safety seat belt at all times when in the vehicle.
- Avoid distraction when driving the driver will adjust car stereos/mirrors etc. before setting off or pull
  over safely to do so.
- Report ALL near-misses, crashes, and scrapes to their manager,
- Report infringements to a manager at the earliest opportunity.
- Report vehicle defects to a manager prior to the next use of the vehicle.
- Follow speed limits as imposed within the estate.
- Keep loads covered at all times.
- Park in dedicated light vehicle or heavy vehicle parking spaces.

#### The Site Team Responsibilities

The Contractor is responsible to take all steps necessary to ensure company vehicles are as safe as possible and will not require staff to drive under conditions that are unsafe.

This will be achieved by undertaking the following:



- Ensuring all vehicles are well maintained and that the equipment enhances driver, operator, and passenger safety by way of:
  - Pre-commencement checks for all new plant arriving on-site and prior to undertaking any work.
  - Daily prestart inspections for all plant, vehicles, and equipment currently on-site.
  - All construction plant must be fitted with a flashing light, fire extinguisher and reverse alarms (or squawkers).
  - Ensure all operators onsite have a current verification of competency (VOC) for their current driver's licence of the appropriate class.
  - Ensure maintenance requirements are met and recorded.
- Identify driver training needs and arranging appropriate training or re-training. This may include providing the below:
  - Operator VOC assessment as part of all inductions.
  - Regular Toolbox discussions on safety features, managing fatigue, approved heavy routes, driver responsibility and drink-driving.
- Encouraging Safe Driving behaviour by:
  - Ensuring the subcontractor is informed if their staff become unlicensed.
  - Not covering or reimbursing staff speeding or other infringement notices.
  - Ensuring Legal use of mobile phones in vehicles while driving only and that illegal use is not undertaken.
- Encouraging better fuel efficiency by:
  - Use of other transport modes or remote conferencing, whenever practical.
  - Providing training on, and circulating information about, travel planning and efficient driving habits.

#### Vulnerable Users

 Be mindful of private residences that live and access directly onto Mamre Road and private vehicles use these surrounding roads.

#### Crash or incident Procedure

- Stop your vehicle as close to it as possible to the scene, making sure you are not hindering traffic. Ensure your own safety first, then help any injured people and seek assistance immediately if required.
- Ensure the following information is noted:
  - Details of the other vehicles and registration numbers
  - Names and addresses of the other vehicle drivers.
  - Names and addresses of witnesses.
  - Insurers details
- Give the following information to the involved parties:
  - Name, address, and company details.
- If the damaged vehicle is not occupied, provide a note with your contact details for the owner to contact the company.
- Ensure that the police are contacted should the following circumstances occur:
  - If there is a disagreement over the cause of the crash.
  - If there are injuries.



- If you damage property other than your own.
- As soon as reasonably practical, report all details gathered to your manager.

#### **Environmental Procedures**

A range of measures shall be implemented to ensure the following;

- No dirt or debris from the construction vehicles is tracked on to the public road network.
- Reduce the impacts to sensitive receivers, including, where practicable, starting noisy equipment away from sensitive receivers and implementing respite periods.
- Watering of dusty activities will be undertaken, or activities temporarily halted and then resumed once weather conditions have improved.
- Containment measures for spillages will be provided at appropriate locations and in close proximity to staff car park areas, dangerous goods stores areas and main Project work areas.
- All vibratory compactors must not be used closer than 30 metres from residential buildings unless vibration monitoring confirms compliance with the vibration criteria, and
- Keep an accurate record which includes the range of measures undertaken to reduce environmental impacts.



Appendix B. Risk Assessment



# Proposed Warehouse Development

### **Risk Assessment and Communication Tool**

Project Number	P2264r03										
Project Name	Mamre Road, Abbotts Road and Aldington Road Upgrade										
Site Location	Mamre Road	Mamre Road, Abbotts Road and Aldington Road, Kemps Creek									
Date of Assessment	18/10/2024										
Revision	Issue III										
Name		Company		Title							
E. Duan		Ason Group		Traffic Engineer							
J. Laidler		Ason Group		Principal Traffic Engineer							
Document Control											
Date Issued	Revision		Issued By		Checked By						
18/07/2024	Draft		E. Duan		J. Laidler						
26/08/2024	Issue I		E. Duan		J. Laidler						
17/09/2024	Issue II		E. Duan		J. Laidler						
18/10/2024	Issue III		E. Duan		J. Laidler						

Risk Matrix		Consequence									
		Minor	Major	Severe	Critical	Catastrophic					
		А	В	С	D	Ш					
Very Unlikely 1		Low	Low	Medium	Medium	Medium					
Unlikely	2	Low	Low	Medium	Medium	High					
Possible	3	Low	Medium	High	High	High					
Likely	4	Medium	Medium	High	High	Extreme					
Almost Certain 5		Medium	High	High	Extreme	Extreme					



Description	
A - Minor	Could result in injury or illness not resulting in a lost work day or minimal environmental damage not required to be notified under jurisdiction requirements.
B - Major	Could result in injury or illness resulting in one or more lost work day(s) or environmental damage can be mitigated and is not required to be notified under jurisdiction
C - Severe	requirements where restoration activities can be accomplished.
D - Critical	Could result in permanent partial disability, injuries or illness that may result in
E - Catastrophic	hospitalisation of persons or environmental damage can be mitigated and is required to be notified under jurisdiction requirements.

Likelihood Descriptor	Design Likelihood
1 - Very unlikely	Industry experience suggests design failure is very unlikely. It can be assumed failure
2 - Unlikely	Industry experience suggests design failure is unlikely to occur in the life of design.
3 - Possible	Industry experience suggests design failure is possible sometime during the life of the
4 - Likely	Industry experience suggests design failure is likely to occur during the life of the product.
5 - Almost certain	Industry experience suggests design failure is almost certain to occur during the life of the



### Risk Assessment and Communication Tool Example

ID. Ref	Risk and/ or Hazard	Risk Description	Location	on Existing Control		Initial Risk Rating		Initial Risk Rating		Design Response to risk and /or hazard	Status of Risk	Assignment of risk or	Res ratir	idual ri 1g	sk
		-			С	L	RR			hazard	С	L	RR		
1	Unauthorized Access to the Site	Site prevents unauthorised access	Entire Site	Nil	С	3	High	Exclusion barriers will be provided as part of the main works. The design provides a defined separation between construction and work areas.	Design Solution	Main Contractor	В	2	Low		
2	Interaction between pedestrians and vehicles	Vehicles and pedestrians to be separates as best possible	Entire Site & Access Roads	Nil	D	3	High	Dedicated footpath, pedestrian crossings and additional signage shall be provided to separate vehicles and pedestrians as best possible.	Design Solution	Main Contractor	В	2	Low		
3	Potential vehicle conflict points	Vehicles can crash with each other while manoeuvring through the site	Entire Site & Access Roads	Nil	В	3	Medium	Roadways are capable of two-way flow. Nonetheless, Traffic Controllers shall limit movements within disrupted areas to limit any safety issues. Low speeds throughout the site also reduce potential for crashes	Design Solution	Main Contractor	В	1	Low		



4	Fatigue	Injury caused by fatigue	Entire Site	Nil	С	3	High	Toolbox meetings and regular breaks (in line with WHS practices) to minimise fatigue	Design Solution	Main Contractor	В	1	Low
5	Fall risks	Injury due to falls (in general)	Entire Site	Nil	E	3	High	Ensuring level changes across the site to be minimised as best possible, with additional black & yellow hazard tape/marking being installed where appropriate. Installation of handrails where level changes / ramps grades are significant.	Design Solution	Main Contractor	С	2	Medium
6	Misdirected access into neighbouring site	Vehicle in unsafe locations	Entire Site	Nil	C	3	High	Ensuring appropriate directional signage has been provided to ensure vehicles do not access the wrong construction site, which could create potential safety breaches and hazards for all partied	Design Solution	Main Contractor	B	2	Low
7	Conflicting Traffic Management	Coordinating Traffic Controllers could create misleading and wrong advice	Entire Site	Nil	С	3	High	Toolbox meetings, regular liaison with all construction teams and review of signage plans on site in order to minimise contradicting signage.	Design Solution	Main Contractor	С	2	Medium
8	Unsafe Right-Turn Movements at Intersection	The risk of vehicle collisions due to right- turn	Mamre Rd/ Abbotts Rd Intersection	- Give-Way control - Restrictions on right turns for vehicles	D	3	High	Implementation of LILO configuration, line marking and signage to prohibit all right-turn movements	Design Solution	Main Contractor	В	3	Medium

P2264r03v07 CTMP\_Mamre Rd, Abbotts Rd and Aldington Rd Upgrade, Issue VII



movements at the intersection	over 5t from Abbotts Road into Mamre Road		in and out of Abbotts Road, reducing the risk of collisions. This is in accordance with the Driver Code of Conduct based on a requirement from DPHI, prohibiting		
			DPHI, prohibiting right turns by		
			construction vehicles at this intersection.		



Appendix C. Traffic Guidance Scheme




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## esigner / Approve Full Name: James Laidler Key: Role: Principal Lead Division / Organisation: Ason Group SafeWork NSW Card Number: TCT0031686 Barriers nature: Construction Zone ate: 29 08 2024

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### 100 GS GENERAL NOTES

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ALL SIGNS ARE TO BE MINIOUN SEE A ALL SIGNS ARE TO BE CLASS 1 RETROREFLECTIVE ALL TRAFFIC GUIDANCE SCHEMES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH TINSW'S TRAFFIC CONTROLAT WORK SITES TECHNICAL MANUAL ISSUE 6.1 (RELEASED 2022) AND AUSTRALIAN STANDARDS AS1742.3:2019 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 3: TRAFFIC CONTROL DEVICES FOR WORKS ON ROADS

THIS TRAFFIC GUIDANCE SCHEME MUST BE SET UP BY A PERSON HOLDING AN "IMPLEMENT TRAFFIC MANAGEMENT PLAN" TICKET AND TINSW'S TRAFFIC CONTROL AT WORK SITES CHECKLIST SHALL BE COMPLETED PRIOR TO IMPLEMENTATION THE ACCREDITED PERSONNEL SHALL IMPLEMENT THE APPROVED TGS BEFORE ANY PHYSICAL WORK COMMENCES AND ENSURE A COPY OF THE TGS IS KEPT ON-SITE. THE ACCREDITED PERSONNEL SHALL ALSO DRIVE THROUGH THE SITE BEFORE WORKS BEGIN TO ENSURE THAT THE TGS HAS BEEN IMPLEMENTED CORRECTLY AND THAT THE IT WILL WARN, INSTRUCT AND GUIDE ROAD USERS AS DESIGNED. - ANY VARIATIONS TO THE PLAN MUST BE MARKED ON THE PLAN AND INITIALED BY THE ACCREDITED PERSONNEL.

IT IS THE RESPONSIBILITY OF THE AN ACCREDITED PERSONNEL WITH A PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN TO ENSURE THE FOLLOWING: \* THE INTEGRITY OF ALL TRAFFIC CONTROL MEASURE THROUGH TO THE FINAL REMOVAL. THIS INCLUDES DAILY CHECKS OF ALL SIGNS AND DEVICES. THE CORRESPONDING RECORDS OF CHECKS SHALL BE KEPT ON FILE FOR AUDITING PURPOSES. \* VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AFFECTED BY TRAFFIC CONTROL MEASURES \* AT ALL TIMES AN UP-TO-DATE COPY OF "TRAFFIC CONTROL AT WORK SITES" SHALL BE AVAILABLE FOR REFERENCE AND IMPLEMENTATION AS REQUIRED ON-SITE \* THE PORTABLE TRAFFIC SIGNALS ARE OPERATING INLINE WITH THE CONSTRUCTION TRAFFIC IMPACT ASSESSMENT

IMPACT ASSESSMENT

ALL WORKERS WILL BE CONFINED TO THE DEDICATED WORKS AREA SHOWN ON THE PLAN - IF THE WORKSITE IS LEFT UNATTENDED IT IS THE CONTRACTORS DUTY TO ENSURE THAT THE APPROPRIATE MEASURES ARE TAKEN TO PROVIDE A SAFE ENVIRONMENT FOR VEHICLES AND PEDESTRIANS AS PER ALL AUSTRALIAN STANDARDS - TRAFFIC CONTROL LAYOUT (TL-19) AND PREPARE TO STOP (TL-18) SIGNS ARE TO BE COVERED OR REMOVED WHEN TRAFFIC CONTROL IS NOT OPERATING - SIGNS MUST BE SECURE, CLEARLY VISIBLE AND NOT OBSCURED - SIGNS MUST BE SECURE, CLEARLY VISIBLE AND NOT OBSCURED - SIGNS MUST BE DET OT THE ADDI LOAD IE SAFE WORK DISTANCE AS DESCRIBED IN AS1742 3-2010

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Note: 1. All lanes must be a minimum of 3m.

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							PWZTMP No.	DATE	PROJECT	
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Phase 1 - Stage 3 Abbotts Road Night Time Construction

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01	29.08.2024	Phase 1 Stage 3 Aldington Rd Night Time Construction	JL	JL	JL	
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PLO	F DATE: 11/01/20	21 8:58:38 AM   CAD REFERENCE: C:\Users\James Laidler\Downloads\A	G TGIS TE	emplate '	WIP (2).	iwg   James

DESIGNED	PAPER SIZE	CLIENT	DOCUMENT INFORM
James Laidler	A3	Land Owners Group East	Traffic Management
PWZTMP No.	DATE	PROJECT	
TCT0031686	29.08.2024	P2264	Phase 1 - Stage 3 Aldington Road Night
APPROVED BY	SCALE		DRAWING STATUS
James Laidler	1:5000	Aldington Rd / Abbots Rd / Mamre Rd Road	For Approval

Time Construction

Suite 17.02, Level 17, 1 Castlereagh St. Sydney NSW 2000

nfo@asongroup.com.au FILE NAME

P22264d01 Phase 1 TGS

SHEET

## TGS GENERAL NOTES

CASTLEREAGH ROAD HAS A SPEED LIMIT OF 80KM/H LOCATION OF SIGNS ARE TO BE CONFIRMED ON-SITE TO ENSURE APPROPRIATE VISIBILITY ALL SIGNS ARE TO BE MINIMUM SIZE A

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IMPACT ASSESSMENT

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SET

SET

MAMRE ROAD





80.0 m

INTERSECTION

SET G

Consult with Westlink Construction and confirm how heavy vehicles can access Westlink Site to the east prior to commencement of Stage 4 Work

ABBOTTS ROAD

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AMENDMENTS DESIGNED PAPER SIZE GENERAL NOTES CLIENT DOCUMENT INFOR Land Owners Group East James Laidle Traffic Management PWZTMP No DATE PROJECT Phase 1 - Stage 4 Construction 29.08.2024 TCT0031686 P2264 APPROVED BY SCALE DRAWING STATUS Aldington Rd / Abbots Rd / Mamre Rd Road 01 29.08.2024 Phase 1 Stage 4 Construction REV DATE DESCRIPTION James Laidler 1:5000 For Approval JL JL JL DRW CHK APP

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ROAD

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ate: 29.08.2024

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## Key:

Stage 4 **Construction Zone** 

Signs

**Traffic Barricade** 

Traffic Controller

RMATION	

group Suite 17.02, Level 17, 1 Castlereagh St Sydney NSW 2000

info@asongroup.com.a

P22264d01 Phase 1 TGS

FILE NAME

SHEET AG09

Patitities



29.08.2024

SCALE

P2264

Aldington Rd / Abbots Rd / Mamre Rd Road

TCT0031686

APPROVED BY

01 29.08.2024 Phase 1 Detour Layou REV DATE DESCRIPTION JL JL JL DRW CHK APP James Laidler 1:30000

PLOT DATE: 11/01/2021 8:58:38 AM | CAD REFERENCE: C:/Users.James Laidler/Downloads/AG TGS Template WIP (2).dwg | James Laidler

## TGS GENERAL NOTES

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## Designer / Approve

Full Name: James Laidler Role: Principal Lead Division / Organisation: Ason Group SafeWork NSW Card Number: TCT003168 Signature: Hill

Date: 29.08.2024

Phase 1 - Detour Layout

DRAWING STATUS

For Approval

grou 03 Sube 17.02, Level 17, 1 Castlereagh St Sydney NSW 2000

info@asongroup.com.au

P22264d01 Phase 1 TGS



- CASTLEREAGH ROAD HAS A SPEED LIMIT OF 80KM/H
- LOCATION OF SIGNS ARE TO BE CONFIRMED ON-SITE TO ENSURE APPROPRIATE VISIBILITY

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ROADWORK AHEAD	- mar
40.0 m	
	N 1.
80.0 m	Des
40	Full
	Role Divi

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Cones / Work Area

ote: All lanes must be a minimum of 3m. - 30 igner / Approver

Full Name: James Laidler Role: Principal Lead Division / Organisation: Ason Group SafeWork NSW Card Number: TCT0031686 Key: Barriers Had ature Construction Zone e: 29.08.2024

Ensure a minimum 1m clearance between safety barrier and area of work at all times -

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A	AMENDMENTS					GENERAL NOTES	DESIGNED	PAPER SIZE	CLIENT	DOCUMENT INF
							James Laidler	A3	Land Owners Group East	Traffic Management
							PWZTMP No.	DATE	PROJECT	
			-				TCT0031686	29.08.2024	P2264	Phase 2 Stage 1 South Aldingto
							APPROVED BY	SCALE		DRAWING STATUS
0	1 29.08.2024	Phase 2 Stage 1 South Aldington Road	JL	JL	JL		James Laidler	1:2000	Aldington Rd / Abbots Rd / Mamre Rd Road	For Approval
RE	V DATE	DESCRIPTION	DRW	CHK	APP					

표정 PLOT DATE: 11/01/2021 8:58:38 AM | CAD REFERENCE: CAUsers/James Laidlen/Downloads/AG TGS Template WIP (2).dwg | James Laidler |





Ensure a minimum 1m clearance between safety barrier and area of work at all times

30.0 m

30.0 m



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# ALDINGTON ROAD

## GS GENERAL NOTES

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AHEAD SET D

40.0 m ROADWORK AHEAD 40.0 m

Cones / Work Area

40.0 m

80.0 m

1.

40 ROAD WORK

40

esigner / Approve Full Name: James Laidler Role: Principal Lead Division / Organisation: Ason Group SafeWork NSW Card Number: TCT003168 Had nature: ate: 29.08.2024

SEE TTE

Key: Barriers Construction Zone

88 Note: 1. All lanes must be a minimum of 3m.

AMENDMENTS				GENERAL NOTES	DESIGNED	PAPER SIZE	CLIENT	DOCUMENT INFOR
					James Laidler	A3	Land Owners Group East	Traffic Management
					PWZTMP No.	DATE	PROJECT	
					TCT0031686	29.08.2024	P2264	Phase 2 Stage 1 North Aldington Ro
					APPROVED BY	SCALE	12207	DRAWING STATUS
01 REV	29.08.2024 DATE	Phase 2 Stage 1 North Aldington Road	JL JL JL DRW CHK APP		James Laidler	1:2000	Aldington Rd / Abbots Rd / Mamre Rd Road	For Approval

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P22264d02 Phase 2 TGS



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# ALDINGTON ROAD

Key:

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Cones	• • • •	Contraction of the	Full Name: James Laidler Role: Principal Lead Division / Organisation: As
Stage 2 Construction Zone			Signature:
Signs	-		Children and
Safety Barrier	-		1. All lanes must
		1	

Approve

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AM	ENDMENTS	GENERAL NOTES	DESIGNED	PAPER SIZE	CLIENT	DOCUMENT INFOR
			James Laidler	A3	Land Owners Group East	Traffic Management
			PWZTMP No.	DATE	PROJECT	
			TCT0031686	29.08.2024	P2264	Phase 2 Stage 2 South Aldington Road
			APPROVED BY	SCALE		DRAWING STATUS
01 29 REV D	9.08.2024 Phase 2 Stage 2 South Aldington Road JL JL ATE DESCRIPTION DRW CHK	JL APP	James Laidler	1:7500	Aldington Rd / Abbots Rd / Mamre Rd Road	For Approval

PLOT DATE: 11/01/2021 8:58:38 AM | CAD REFERENCE: C:/Users/James Laidlen/Downloads/AG TGS Template WIP (2).dwg | James Laidlen

ABBOTTS

ROAD

SET D

00

Cones / Work Area

ROADWORK

AHEAD

40.0 m

-

-

40

RDAD WORK

40

SET D

40.0 m

40.0 m

80.0 m

1.

Cones / Work Area

(40)

ROAD

(40)

AHEAD

SET B

ROADWORK

AHEAD

8 SET

30.0 m

15.0 m

15.0 m

15.0 m

1.







UT THIS NO	AMENDMENTS				GENERAL NOTES	DESIGNED	PAPER SIZE	CLIENT	DOCUMENT INFOR
F IT WITHO					-	James Laidler	A3	Land Owners Group East	Traffic Management
Y PART O XLAIMS AN					-	PWZTMP No.	DATE	PROJECT	
LAN OR AN						TCT0031686	29.08.2024	P2264	Phase 2 Stage 3 East Aldington Road
OF THIS F ON THERE					-	APPROVED BY	SCALE		DRAWING STATUS
ODUCTION (	01 29.08.2024 REV DATE	Phase 2 Stage 3 East Aldington Road DESCRIPTION	JL DRW	JL JL CHK APP		James Laidler	1:3000	Aldington Rd / Abbots Rd / Mamre Rd Road	For Approval
DISCI									

PLOT DATE: 11/01/2021 8:58:38 AM | CAD REFERENCE: C: Users James Laidler Downloads AG TGS Template WIP (2).dwg | James Laidler |



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MATION



Suite 17.02, Level 17, 1 Castlereagh St Sydney NSW 2000

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P22264d02 Phase 2 TGS



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F IT WITHO			James Laidler	A3	Land Owners Group East	Traffic Management	
N PART O			PWZTMP No.	DATE	PROJECT		
LAN OR AN		-	TCT0031686	29.08.2024	P2264	Phase 2 Stage 3 West Aldington Road	
OF THIS P ON THERE			APPROVED BY	SCALE		DRAWING STATUS	
RODUCTION ( LAMER - ASC	01         29.08.2024         Phase 2 Stage 3 West Aldington Road         JL         JL         JL         Rev         DATE         DESCRIPTION         DRW         CHK         All         All </td <td></td> <td>James Laidler</td> <td>1:3000</td> <td>Aldington Rd / Abbots Rd / Mamre Rd Road</td> <td>For Approval</td>		James Laidler	1:3000	Aldington Rd / Abbots Rd / Mamre Rd Road	For Approval	

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P22264d02 Phase 2 TGS



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DESCRIPTION

### GS GENERAL NOTES

CASTLEREAGH ROAD HAS A SPEED LIMIT OF 80KM/H

- CASILLENEAGH ROAD HAS A SPEED LIMIT OF 80KM/H - LOCATION OF SIGNS ARE TO BE CONFIRMED ON-SITE TO ENSURE APPROPRIATE VISIBILITY - ALL SIGNS ARE TO BE MINIMUM SIZE A - ALL SIGNS ARE TO BE CLASS 1 RETROREFLECTIVE - ALL TRAFFIC GUIDANCE SCHEMES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH TINSW'S TRAFFIC CONTROL AT WORK SITES TECHNICAL MANUAL ISSUE 6.1 (RELEASED 2022) AND AUSTRALIAN STANDARDS AS1742.3:2019 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, PART 3: TRAFFIC CONTROL DEVICES FOR WORKS ON BOADS WORKS ON ROADS

THIS TRAFFIC GUIDANCE SCHEME MUST BE SET UP BY A PERSON HOLDING AN "IMPLEMENT TRAFFIC MANAGEMENT PLAN" TICKET AND TINSW'S TRAFFIC CONTROL AT WORK SITES CHECKLIST SHALL BE COMPLETED PRIOR TO IMPLEMENTATION THE ACCREDITED PERSONNEL SHALL IMPLEMENT THE APPROVED TGS BEFORE ANY PHYSICAL WORK COMMENCES AND ENSURE A COPY OF THE TGS IS KEPT ON-SITE. THE ACCREDITED PERSONNEL SHALL ALSO DRIVE THROUGH THE SITE BEFORE WORKS BEGIN TO ENSURE THAT THE TGS HAS BEEN IMPLEMENTED CORRECTLY AND THAT THE IT WILL WARK, INSTRUCT AND GUIDE ROAD USERS AS DESIGNED. - ANY VARIATIONS TO THE PLAN MUST BE MARKED ON THE PLAN AND INITIALED BY THE ACCREDITED PERSONNEL

IT IS THE RESPONSIBILITY OF THE AN ACCREDITED PERSONNEL WITH A PREPARE A WORK ZONE TRAFFIC MANAGEMENT PLAN TO ENSURE THE FOLLOWING:
 \* THE INTEGRITY OF ALL TRAFFIC CONTROL MEASURE THROUGH TO THE FINAL REMOVAL. THIS INCLUDES DAILY CHECKS OF ALL SIGNS AND DEVICES. THE CORRESPONDING RECORDS OF CHECKS SHALL BE KEPT ON FILE FOR AUDITING PURPOSES.
 \* VEHICULAR ACCESS AND SERVICING REQUIREMENTS ARE TO BE MAINTAINED AT ALL TIMES TO ADJACENT PROPERTIES AFFECTED BY TRAFFIC CONTROL MEASURES
 \* AT ALL TIMES AN UP-TO-DATE COPY OF 'TRAFFIC CONTROL AT WORK SITES' SHALL BE AVAILABLE FOR REFERENCE AND IMPLEMENTION AS REQUIRED ON-SITE
 \* THE PORTABLE TRAFFIC SIGNALS ARE OPERATING INLINE WITH THE CONSTRUCTION TRAFFIC IMPACT ASSESSMENT

IMPACT ASSESSMENT

ALL WORKERS WILL BE CONFINED TO THE DEDICATED WORKS AREA SHOWN ON THE PLAN IF THE WORKSITE IS LEFT UNATTENDED IT IS THE CONTRACTORS DUTY TO ENSURE THAT THE APPROPRIATE MEASURES ARE TAKEN TO PROVIDE A SAFE ENVIRONMENT FOR VEHICLES AND PEDESTRIKANS AS PER ALL AUSTRALIAN STANDARDS TRAFFIC CONTROL LAYOUT (TL-19) AND PREPARE TO STOP (TL-18) SIGNS ARE TO BE COVERED OR REMOVED WHEN TRAFFIC CONTROL IS NOT OPERATING SIGNS MUST BE SECURE, CLEARLY VISIBLE AND NOT OBSCURED SIGNT DISTANCE TO BE TO THE APPLICABLE SAFE WORK DISTANCE AS DESCRIBED IN AS1742.3:2019 ALL SIGNAGE SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 2.5.2 OF AS1742.3:2019. HOWEVER, ADJUSTMENTS MAY BE MADE TO SUIT SITE CONDITIONS THIS TGS HAS BEEN DESIGNED, DEVELOPED AND IMPLEMENTED BY A SUITABLY QUALIFIED PERSON (WWZITM AND LOC QUALIFICATIONS)

PERSON (PWZITM AND ITCP QUALIFICATIONS)

## ALDINGTON ROAD



Suite 17.02, Level 17, 1 Castlereagh St. Sydney NSW 2000

info@asce noroup.com.a FILE NAME

P22264d02 Phase 2 TGS

SETG



## www.invarion.com

SITE MAR	SITE MARKER COMMON LEGEND						DEVICE COMMON LEGEND					
WORK AREA			TION/NO GO ZONE		* TRAFFIC C	ONTROLLER	실 🙆	CONES - 700MM OR HIGHER		BOX EDGE / MMS - SIGN FRAME/STAND		
SPECIFIC WORKS		PLAN	T/ EQUIPMENT LAYDOWN		L				VMS BOARD	VMS TRAILER /	(SIGNAGE VEHICLE) (	
		🗴 🕅 🕅	ORARY BUS STOP ZONE	A	POLICE OF	FICER	Ħ	BARRIER BOARD		TRAILER ARROW BOA	RD	
		<u>~</u>		Å	WORKER /	SPOTTER /		THM - TEMPORARY		PTCD- PORTABLE TRAFFIC CONTROL		
QUE LENGTH		PEDE	STRIAN PATH	Λ	MARSHAL			CHEVRONS	4	DEVICE	(DROP DECK VEHIC	
					ALTUS	S GROUP GE	NERAL N	NOTES - LIMITED TO	O NECESSAR	RY NOTATIONS		
GENERAL				TRAFI	FIC CONTROLLER	RS					POSITIONING OF SIGNS AND DEVICE	
<ul> <li>THM MEASURES SHALL BE INSTALLED, MURCHMENTER SHALL PROPOSED ACTIVITIES TO ENSURE THEY - THE ITCP SHALL CHECK THE ROAD ENVIR IT IS AT AN APPROPRIATE LEVEL FOR THE - A 5-MINUTE COUNT OF TRAFFIC SHOULD AGAINST VALUES RECORDED IN THE TMP - IF THE WORKSITE AND THE APPROVED TI IMPLEMENTER SHALL DETERMINE WHETI * MAKE COMPLIANT ADJUSTMENTS * CONTACT PERSONS WITH THE RI (E.G., ADDITIONAL SIGNS OR DIST * CONTACT THE RELEVANT ROAD I ACTIONS IDENTIFIED ON THE TMP OR LANE USAGE SIGNAGE).</li> <li>WHERE THE TMP/TGS CANNOT BE SUITAI ROBSON CIVIL THAT THEY ARE NOT APPRC - ALL SITE INFORMATION WORK HOURS, IN DOCUMENTED ON THE TMP AND TGS AS - A COPY OF THE APPROVED TMP/TGS SHA</li> </ul>	W THE APPRO RRY AND ARE. LY THE "ON TH PRIATE ESTIM EMENTARY, BI APER WITHIN ATION TO APPI TOLERANCES CA, CHANGE ODIFIED, THE ORKS SHOUL STMENTS AND ED ON-SITE/V AT ALL TIMES	ANNED AND SAFE WAINTER. BEFORE VED TMP/TGS, THE WORKSITE AND THE APPROPRIATE. HE DAY" TRAFFIC FLOWS, TO ENSURE TH ATE OF VOLUMES TO REFERENCE EFORE OCCUPYING THE WORKSITE, THE TOLERANCES) TO THE TMP/TGS ROVE MODIFICATIONS TO THE TMP/TGS FIC CONTROL FACILITY TO INITIATE IN THE VMS, VARIABLE SPEED LIMIT SIG IMPLEMENTER SHOULD ADVISE D BE POSTPONED. AUTHORISED MODIFICATIONS ARE TO I YORKS RECORD.	- UNII - OVII - SPE COD - AN I - TRA - ENS THE E - ENS MOI - ENS PCE - REL - REL - REL - REL - FT - FT - FT - FT - FT - FT - FT - FT	ET COMPETENT P EED SHALL BE 60 NTROLLER IF THE ESCAPE ROUTE S AFFIC CONTROLLI SURE A WORK VE E TRAFFIC CONTR SURE THAT TRAFF RNING OR EVENIT SURE THAT TRAFFIC OL SURE THAT TRAFFIC SU IS TO BE ENGA SURE THAT TRAFFIC SURE TAT TRAFFIC CE FOUR TRAFFIC PER ON THE LEFT CE FOUR TRAFFIC ER RISK MANAG HERE IS A QUEUE E ROAD AND INLIN ERTAKING MANEL DER NO CIRCUMS AFFIC CONTROLLI SURE A SINGLE TI	ERSONS WITH APPRC KW/H MAXIMUM. PRO' SPEED IS HIGHER (S SHALL BE IDENTIFIED ERS SHALL CONDUCT HICLE IS NOT PARKEE COLLER'S ESCAPE RO' FIC CONTROLLERS AR IGED TO PROVIDE ADI IC CONTROLLERS AR IGED TO PROVIDE ADI SARE USED DURING HAND SHOULDER OR C CONES SPACED 4 M ISMENT ALLOWS INST E OF 2 OR MORE VEHI E WITH THE DRIVER'S IVERS OCCURRING IN STANCES ARE TAFFIC ERS ARE TO ONLY CO SAFFIC CONTROLLER	JPRIATE CERTIN VIDE A TEMPOR EE SECTION 5.4 FOR EACH TRA DUTIES WITH A DIN A WAY THAT UTE. E VISIBLE AT AL E SHADE ON A S RE WELL ILLUMI DITIONAL LIGHT RAFFIC CONTR E DEGE OF THE A PART, ON TH ALLATION TO O ICLES, WHEN S S SIDE OF THE I ONCOMING THE C CONTROLLER MMUNICATE WIN	FICATION STALL BE APPOINTED A ARY SPEED LIMIT OF 60 KM/H OF 4.3 FROM TCAWS V6.1). VFFIC CONTROLLER FROM THEIR A CLEAR SIGHT DISTANCE FROM. T IMPACTS THE VISIBILITY OF THE LLL TIMES OF THE DAY, PARTICUL/ SUNNY DAY OR WORKING IN DUS' INATED AT NIGHT. WHERE CONTR TING. ROLLER DUTIES AT LEAST EVERY W OPERATIONS, POSITION THE TI ROAD AND FACING APPROACHIN 4E CENTER-LINE 6 M IN FRONT OF OCCUR. AFE TO DO SO, TRAFFIC CONTRC FIRST VEHICLE TO REMAIN VISIB RAFFIC. RS TO STAND OR OPERATE UNPR TITH A ROAD USER ONCE THE VEH ROLS MORE THAN ONE LANE OF T	A LESS ON THE APPR TRAFFIC CONTROL F APPROACHING ROAL SITE OR TRAFFIC C ARLY AT DAWN, DUSK TY CONDITIONS. COL POINTS IDENTIFY 2 HOURS FOR AT LEA RAFFIC CONTROLLED IG TRAFFIC. THE TRAFFIC CONT DLLERS CAN MOVE IN LE TO ALL ROAD USE OTECTED IN A LANE I ICLE HAS STOPPED. TRAFFIC OR MORE TI	CARRYING TRAFFIC CARRYING TRAFFIC CONTROLLER OR LIMITS CAGAINST LOW CLIMITED VISIBILITY, AST 15 MINUTES. R 6 M IN FRONT OF THE ROLLER POSITION ITO THE CENTER OF RR 6 AND AVOID CARRYING TRAFFIC. AND IS SAFE TO DO SO. 14N ONE APPROACH.	SIGNS AND DEVICES ARE TO BE THEY ARE PROPERLY DISP     "THEY ARE WITHIN THE LINK     "THEY CAN NOT BE OBSCUF     "THEY DO NOT OBSCURE O     "THEY DO NOT DESCURE O     "THEY DO NOT BECOME A P     "THEY DO NOT DEFLECT TR     "THEY DO NOT RESTRICT SI     DRIVEWAYS.     "THEY ARE NOT INSTALLED     "TRAFFIC CONES AND BOLL     OF DISPLACEMENT FROM     "TRAFFIC CONES AND BOLL     PRESENT ON SITE.     "STANDARD TRAFFIC CONE     WHERE THE SPEED IS MOP     EDGE OF TRAFFIC LANE TO ROAD     "IOM OFFSET FOR POSTED     "IOM OFFSET FOR POSTED     "EDGE OF TRAFFIC LANE TO ROAD		
PRE-START REQUIREMENT/S	A S REC	UNGLE TRAFFIC C	CONTROLLER CAN OPI	ERATE TWO PT	SS AT ONE TIME WHERE TRAINED	TO DO SO, AND TGS	S IDENTIFIES THE					
- ALL PERSONS INVOLVED WITH TTM ACTIN DOCUMENTED ON THE SITE RECORDS. - THE TOOLBOX TALK FOR TTM STAFF IS U: *KEY ASPECTS OF THE TGS/TMP *IDENTIFIED HAZARDS *TTM REQUIREMENTS AN *SAFETY ZONE REQUIREMENTS AN *COMMUNICATION PROCESSES	/ITIES SHALL BE BRIE SED TO EXPLAIN THE ORKSITE ND LIMITS	EFED/INDUCTI	ED BY THE ITCP AND HAVE THIS	- SOM THE *ENS *BE - TRA SHC SIG	ME INTERSECTIO EY ARE REQUIREL SURE THAT ROAD IN CONTINUOUS AFFIC CONTROLL DWN ON THE PLA NAGE POSITIONS	NS REQUIRE THREE C ) TO: (USERS DO NOT SEE RADIO CONTACT WITH ERS ARE TO MONITOF N; WHERE QUES EXCI 5.	DR MORE TRAFI CONFLICTING I HEACH OTHER REND OF QUE S EED THIS PLAC	FIC CONTROLLERS. WHERE MUL MESSAGES WHEN THEY ARE NOT VISIBLE TO SUITABILITY BY PLACING TRAFFIC EMENT, THEY ARE THEN REQUIR	TIPLE TRAFFIC CONT DEACH OTHER. CONES AT THE EST ED TO CONTACT PW2	ROLLERS ARE USED, IMATED END OF QUE ZTMP TO RE-EVALUATE	ALL EMERGENCY SERVICES VEHIC * CEASE ALL WORK IMMEDIATELY, TI * NOTIFY EMERGENCY SERVICES OF DETAILS FOR THE SITE SUPERVISO * ITCP TO INSTALL A SITE-SPECIFIC E OF VEHICLES REQUIRED TO USE T ROADWAYS)	
INCIDENT MANAGEMENT				VULN	ERABLE ROAD U	SERS					TOLERANCES	
IF A DRIVER DISOBEYS A TRAFFIC CONTR * PRIORITISE PERSONAL SAFETY. * USE THE PREDETERMINED ESCA * WARN OTHER MEMBERS OF THE UPON BEFOREHAND, SUCH AS R THE FIRST PREFERENCE IS TO USE THE TAKE THE FOLLOWING ACTIONS IF AN INK WORKSITE OR TRAFFIC CONTROL OPERA' * FIRST AID RESPONSE (WHERE PR * CALL FOR ASSISTANCE (IF NEEDE * EMERGENCY SERVICES CONTAC * NOTIFY THE WORKSITE SUPERA' * MAINTAIN EFFECTIVE TRAFFIC CONTROL CONTROL ST * MAINTAIN EFFECTIVE TRAFFIC CONTROL ST * MOVE THE TRAFFIC ST * MOVE ST * MOVE ST * MOVE	ROL INSTRUCTION: NPE ROUTE, IF NECES CREW AS EARLY AS ADIOS, WHISTLES, S TWO-WAY RADIO TO CIDENT OCCURS WIT ATIONAL AREA: DOSSIBLE). ED). T (IF REQUIRED) ISOR OR TEAM LEAD ONTROL. TATION TO A SUITABL FFIC CONTROL (IF NE	SSARY. POSSIBLE. A SHOUTING ET COMMUNICAT HIN THE TRAF ER AND ALTUS E LOCATION 1 CESSARY)	WARNING SYSTEM MUST BE AGREED C. E WHERE AVAILABLE. FIC CONTROLLER'S DESIGNATED S GROUP OFFICE/SUPERVISOR 'HAT INCLUDES THE	- STI ANL - SPE - MO FRE - VUL MO	UNDER STATE OF SUBJECT	ASSESSMENT SHALL SYROTECTION OF WOR SIDENTIFIED FOR PEI ON ROAD NETWORK USER CONFIRMATION ID THEIR SAFETY INCI CATION OF TRAFFIC C 17 FFICIENT CLEARANCE NCE WARNING AND DI IS SURFACE SAFE FOR SAND DEVICES	BE PERFORME IKS, CONTROLL DESTRIANS ANI EM TO THE DES IS. N OF INSTALLAT LUDE: CONTROL DEVIC E OF OBSTRUC ELINEATION AD MOTORCYCLIS	LERS AND VULNERABLE ROAD US D CYCLISTS AT THE DESIGN STAC SIGN PHASE OF WORKS AS THER FION ISSUES TO CONSIDER REGA CES THAT MIGHT DESTABILISE A M STIONS (E.G., SIGNS, DELINEATION DEQUATE FOR MOTORCYCLISTS? STS?	NON TO HELP IDENT SERS. BE AND SHOWN ON A E IS NO IDENTIFIABLI RDING THE IMPACT ( MOTORCYCLE BEEN / N) SO THAT MOTORC	IFY TGS COMPLIANCE TP ANALYSIS. E DIFFERENCE IN OF WORKS ON AVOIDED ON THEIR YCLISTS CAN LEAN INTO	IF SIGNS AND DEVICES ARE REQUID THE INSTALLER SHALL CONTACT T JUDGEMENT WILL BE NECESSARY INDICATED. SHOULD VARIATIONS TO THE RECC THE SPACING WITHIN TOLERANCE TOLERANCES FOR PLACEMENT OF * UP TO 10% LESS THAN THI BOLLARD INSTALLATION. * UP TO 25% MORE THAN THI ADJUSTMENTS TO A TTM INSTALLA * ANY CHANGES THAT EXCE AND ENDORSED BY AN APP	
* OPERATIONAL AREA. * RECORD SUFFICIENT NOTES OF INCIDENT REPORT.	THE INCIDENT, INCLU	UDING THEIR	OBSERVATIONS, TO COMPLETE AN	- SIG - AT (	- SIGNS ARE TO FACE TOWARDS APPROACHING TRAFFIC APPROXIMATELY AT RIGHT ANGLES TO THE LINE OF SIGHT FROM THE DRIVER. - AT CURVED RIGHT ALIGNMENTS, THE SIGN SHOULD BE PLACED APPROXIMATELY AT RIGHT ANGLES TO THE LINE OF						- NATIONAL COMPLIANCE: AS1742.3 - LOCAL COMPLIANCE: TCAWS v6.1	
* CLEAR THE INCIDENT AREA OF A	NY ITEMS NOT PRES	SENT PRIOR TO	O WORKS INSTALLATION	SIG	HT OF A MOTORIS		- SITE IMPACT / TRAVEL TIME: - INNOVATIVE TREATMENTS: DEVICEM DEPENDENT 64/(2020) 00 00					
DUTY OF CARE				PURP	OSE:		- REVIEW PERFORMED: 04/12/2024 08:29 - OH&S ITEMS ARE HELD IN THE ALTUS G - REGISTERS: KEY PERSONNEL - HELD O					
- ROBSON CIVIL ENSURES A COMMITMENT DUTY OF CARE TO THE WORKS AND ALL F - ALTUS GROUP COMMITMENT AND OHS P - RESPONSIBILITIES SHALL BE HELD IN AC	TO RESPONSIBILITY ROAD USERS. ROCEESES CONTAIN CORDANCE WITH TH	OF IMPLEMEN	VIATION AND EXERCISING A HIS LINK : <u>HSEQ-SODC LINK</u> AND <u>SWMS</u> TCAWS v6.1	THE THE OF S	PURPOSE OF THI FOLLOWING SCO AFETY OUTCOME	S DOCUMENT IS TO O PE, ENSURING ALL ID S FOR ALL INVOLVED	OUTLINE A DESIF ENTIFIED VULN DARE ACHIEVEI	RABLE TEMPORARY TRAFFIC MA IERABLE ROAD USERS ARE CONS D.	NAGEMENT ARRANG SIDERED AND THE HI	EMENT APPLICABLE TO GHEST POSSIBLE LEVEL	GROUP DAILY RECORDS AND INCIDENT CONSULTATION REGISTER - CONTAINS F - CONTINGENCY PLANNING: RESTORATIC ALTERATION UNTIL SUCH TIME THAT ALT	
PREFER SAFETY BUFFER WORK ZONE AREA		WORK	ND EXIT PROCESS	TE KIT 9 9_	- IF MISS - TRAFFI	- HIGHLIGHT SI AND LEAVING - PF RADIO THE TI OR FAIL ABOVE PR THE VEHICLE TO C CONTROLLERS A WORK - FLIP THE	TE ENTRY PO G A SMALL BRI RIOR ENTERIN TURN ON THE RAFFIC CONT DCEDURES, T D LOOP AROU RE TO ENSUF ( VEHICLES IN SETUP FOR F	DINT WITH DOUBLE CONES EAK TO PULL IN SAFELY. NG WORKSITE: FLASHING LIGHTS ROLLER A MINIMUM 100M PRI RAFFIC CONTROLLERS ARE T IND AND ATTEMPT REENTRY. RE THAT NO LOCAL TRAFFIC F N THE WORK AREA FAST LANE CLOSURES	IOR TO DIRECT FOLLOWS	SIGN COVER - ALL PERMANE BE SHOWN ON WHEN REQUIR	I COVERS	
<b>NOT TO SCALE</b>	02/12/2	2024	SITE SETUP TGS AND SETUP RISK ASSESSMENT	<u>NSU0</u>	<u>)1-SS</u>	ALTUS GROUP DES	SIGN NUMBER	R: 24-12-76342-01	ars: 4/5		NENTS:	
PRINT A3	PRINT A3 WORKS LOCATION : ABBOTTS R						E NUMBER:	ТВС		TRAFFIC CONTROLLI TRAFFIC CONTROLLI	ERS : 5 ERS - BREAKS : 2	
	BETWEEN ROAD	DS : D AUTHORI	ALDING	TON RD &	MAMRE RD	GENERAL DISCLAI	IMER: EN PREPARED IN	ACCORDANCE WITH THE INFORMATION	ON SUPPLIED BY ALL		1L.J	
	ESTIMATED JOB DATE :				05/01/2025 -	STAKEHOLDERS. - TECHNICAL DUE CARE WHICH THIS TGS/TMP	E HAS BEEN APPL IS BASED.	LIED IN THE COLLATION OF THE RELEV	ANT INFORMATION ON	SPECIALIST VEHICLE	REQUIREMENTS :	
OGISTICS		19:00 - 05:00	TRAFFIC AND SITE CO AT THE POINT OF DES     ROBSON CIVIL IS RES	NDITIONS AT THE IGN. PONSIBLE FOR 11	E TIME OF THE WORKS MAY VARY FRO	OM THOSE ESTABLISHED	VMS UTE : 0	TMA REQUIRED : 0 DDV RE				
Call Altus Group Toll Free (Australia)					TUESDAY	TRAFFIC CONDITIONS THE TGS/TMP.		N-SITE APPLICATION CONSTRAINTS' C		DEVICE / EQUIPMENT	REQUIREMENTS:	
1300TRAFFIC (872 334) ABN 84 102 768 061	A DESG	DATE		JUN		QUALIFIED INDIVIDUA - DAILY RECORD KEEPI	IHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM TM DESIGN UALIFIED INDIVIDUAL'S SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. AILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING					
	В					WORKS. - THIS TGS/TMP SHALL STATE-SPECIFIC GOVI	REMAIN VALID FO	OR 12 MONTHS FROM THE DESIGN API	PROVAL DATE OR WHER	E PTCD:0 1.8m STOP BAT/S:5 DTCD:0 1.8m STOP BAT/S:5		
	С					AT THIS POINT, THE TO	GS/TMP WILL NEE	D TO BE REVIEWED ON CURRENCY O	F COMPLIANCE.	FIAD.U		



OMMENDED SPACING BE REQUIRED, THEN IT IS GENERALLY PREFERABLE TO INCREASE

SIGNS AND DEVICES (SECTION 7.10.3 FROM TCAWS V6.1) ARE: E DISTANCES GIVEN FOR SIGNS AND DEVICES WITH NO MINIMUM DISTANCE FOR CONES/

HE DISTANCES GIVEN.

ATION: EED TOLERANCES ARE CLASSED AS A MODIFICATION/VERIATION AND SHALL BE AUTHORISED PROPRIATELY QUALIFIED INDIVIDUAL.

IREMENTS: PENRITH CITY COUNCIL

SROUP SWMS. ON TITLEBLOCK, INCIDENTS/VARIATIONS/COMPLIANCE/DAILY INSPECTIONS REGISTERS - HELD IN ALTUS I MANAGEMENT PROCESSES. PRIVATE CONTACT DETAILS AND IS HELD SEPARATE FROM GENERAL-USE DOCUMENTS. ON OF THE ROUTE IN EXISTENCE BEFORE IMPLEMENTATION OF THE TEMPORARY TRAFFIC ROUTE ITERNATIVE ARRANGEMENTS CAN BE DEVELOPED/DESIGNED.

		то	LERANCES IN DIS	STANCES - (ALL VALI	UES ARE IN METERS)			
			MEASUREMENT	- 10%	+ 25%			
			15	13	18			
			20	18	25			
			30	27	37			
			45	41	56			
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			90	81	112			
			APPRO	VED FOR	CLIENT CONTACT : ROBSON CIVIL			
			IMPLEM WHEN USED WITH RO.	ENIATION AD AUTHORITY APPROVAL	GERARD NOONE 04 39 246 804			
			APPROVED BY - D	ESIGNER :				
			SA HAMDAN	N – TCT1024722				
			REVIEW OR DEPAT	URE APPROVED BY:				
QUIF	RED :	0	CRAIG RUMI	NG - TCT0016012	ROBSON	1		
			APPROVAL DATE:	04/12/2024	CIVIL PROJECTS			
		· • 0	ALTUS GROUP NO	MINATED CONTACT :	]			
1 00	ARDS		24HR CONTAG	CT - 1300 872 334				
			SHEET NO :	2 OF 10				

BEST VIEWED DIGITALLY	DATE OF DESIGN:		l:	SITE SETUP TGS AND		ALTUS GROUP DESIGN NUMBER: 24-12-76342-01		WORKSITE REQUIREMENTS :		
NOT TO SCALE		02/12/2	024	SETUP RISK ASSESSMENT	<u>N3001-33</u>				ERS · 5	
PRINT A3	WORKS	S LOCATIO	ON :	ABE	BOTTS RD, KEMPS CREEK			TRAFFIC CONTROLL	LERS - BREAKS : 2	
	BETWE	EN ROAD	)S :	ALC	DINGTON RD & MAMRE RD	GENERAL DISCLAIMER:	TRAFFIC CONTROLUTE: 3			
	WORKS	SITE ROA	D AUTHORIT	Y :	PENRITH CITY COUNCIL	- THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SI STAKEHOLDERS.	JPPLIED BY ALL	SPECIALIST VEHICLE REQUIREMENTS :		
	ESTIMATED JOB DATE :		DATE :		05/01/2025 -	TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT WHICH THIS TGS/TMP IS BASED.     TRUE TIME OF THE WORK MAXWARK FROM THE				
	ESTIMA	TED JOB	TIME :		19:00 - 05:00	AT THE POINT OF DESIGN.	VMS UTE : 0 TMA REQUIRED : 0	DDV REG		
Call Altus Group	GARBA	GE COLL	ECTION DAY	:	TUESDAY	- ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE STEE TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLI THE TCS (TMD	NED WITHIN			
Toll Free (Australia)	ISSUE	DESG	DATE	AMENDMENT	DESCRIPTION	- WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM	M TM DESIGN	DEVICE / EQUIPMEN	T REQUIREMENTS:	
ABN 84 102 768 061 SCI QUAL SC	А					<ul> <li>DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INS WORKS.</li> </ul>	PECTIONS, DURING	TOTAL CONES : 73	TOTAL SIGNS : 26	BARRIEF
	В					THIS TCS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROVAL DATE OR WHERE STATE-SPECIFIC GOVERNANCE IS CHANGED. AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF COMPLIANCE.		RE         PTCD : 0         1.8m STOP BAT/S : 5           PTAB : 0         THM'S / CHEVRON: 0		
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sense of the sense	10 10 CO. CO.					C. Annual Contraction of the Con		and the second sec	And the second s	





CLIENT CONTACT: ROBSON CIVIL GERARD NOONE 04 39 246 804



FOR ALL DESIGN INFORMATION/ REQUIRMENTS AND SPECIALIST VEHCILE / DEVICES REFER TO MAIN COVER PAGE (PG 1)

DRAWING NUMBER:

24-12-76342-01

APPROVED FOR IMPLEMENTATION WHEN USED WITH ROAD AUTHORITY APPROVA

APPROVED BY - DESIGNER :

SA HAMDAN – TCT1024722

REVIEW OR DEPARTURE APPROVED BY: CRAIG RUMING - TCT0016012

APPROVAL DATE: 04/12/2024

ALTUS NOMINATED CONTACT:

24Hr Contact - 1800 872 334

SHEET NO: 4 OF 10

GENERAL DISCLAIMER:

- THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDERS. - TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS TGS/TMP IS BASED.

- TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN.

- ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLINED WITHIN THE TGS/TMP. - WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM TM DESIGN QUALIFIED INDIVIDUAL'S SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. - THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROVAL DATE OR WHERE STATE-SPECIFIC GOVERNANCE IS CHANGED.

- AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF COMPLIANCE.





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BEST VIEWED DIGITALLY	DATE OF	DESIGN:	:	SITE SETUP TGS AND SETUP RISK ASSESSMENT	NSU01-SS	ALTUS GROUP DESIGN NUMBER: 24-12-76342-01 ARS	s: 4/5	WORKSITE REQUIRE	EMENTS :		APPROVED FOR	CLIENT CONTACT : ROBSON CIVIL	
PRINT A3	WORKS LOCATION : ABBOT				BOTTS RD, KEMPS CREEK	CLIENT REFERENCE NUMBER: TBC			_ERS : 5 _ERS - BREAKS : 2		IMPLEMENIATION WHEN USED WITH ROAD AUTHORITY APPROVAL	GERARD NOONE 04 39 246 804	
•	BETWEE	EN ROAD	<b>S</b> :	ALC	DINGTON RD & MAMRE RD	GENERAL DISCLAIMER:	TRAFFIC CONTROL	UTE : 3		APPROVED BY - DESIGNER :			
Call Altus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061	WORKS			Y:	PENRITH CITY COUNCIL	THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIEL     STAKEHOLDERS.     TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORM	SPECIALIST VEHICLE	E REQUIREMENTS :		SA HAMDAN - 1011024722			
	ESTIMA				19:00 - 05:00	WHICH THIS TGS/TMP IS BASED. - TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ES				REVIEW OR DEPATURE APPROVED BY:			
	GARBAG	GE COLLE		:	TUESDAY	AT THE POINT OF DESIGN. - ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLINED WI				CRAIG RUMING - TCT0016012	ROBSON		
	ISSUE	SSUE DESG DATE AMENDMENT DESCRIPTION				THE TGS/TMP. - WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM TM DE CILIAU FEED INDUMINALIO STATULE DE SOLICIUE DRIOP TO INPLEMENTATION	DESIGN	DEVICE / EQUIPMEN	T REQUIREMENTS:		APPROVAL DATE: 04/12/2024	CIVIL PROJECTS	
	А					- DALLY RECORD KEEPING SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIO WORKS	ONS, DURING	TOTAL CONES : 73	TOTAL SIGNS : 26	BARRIER BOARDS : 0	ALTUS GROUP NOMINATED CONTACT :		
	В				<ul> <li>THIS TCS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROVAL DATI STATE-SPECIFIC GOVERNANCE IS CHANGED.</li> </ul>	TE OR WHERE	PTCD:0	1.8m STOP BAT/S : 5		24HR CONTACT - 1300 872 334	l l		
	С					AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF COMPLIAN	NCE.		THIN S / CHEVRON. U		SHEET NO : 6 OF 10	L	

BEST VIEWED DIGITALLY	DATE O	F DESIGN	l:	SITE SETUP TGS AND		ALTUS GROUP DESIGN NUMBER: 24-12-76342-01	ars: 4/5	WORKSITE REQUIREMENTS :		
NOT TO SCALE	02/12/2024		024	SETUP RISK ASSESSMENT	<u>N3001-33</u>			TRAFFIC CONTROLLERS : 5		
PRINT A3	WORKS	S LOCATIO	ON :	ABE	OTTS RD, KEMPS CREEK	CLIENT REFERENCE NUMBER: TBC		TRAFFIC CONTROLLERS - BREAKS : 2 TRAFFIC CONTROL UTE : 3		
	BETWE	EN ROAD	)S :	ALD	INGTON RD & MAMRE RD	GENERAL DISCLAIMER:				
	WORKS	SITE ROA	D AUTHORIT	Y:	PENRITH CITY COUNCIL	<ul> <li>THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SI STAKEHOLDERS.</li> </ul>	JPPLIED BY ALL	SPECIALIST VEHICLE REQUIREMENTS :		
	ESTIMA	TED JOB	DATE :		05/01/2025 -	<ul> <li>TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT WHICH THIS TGS/TMP IS BASED.</li> </ul>				
OGISTICS	ESTIMA	TED JOB	TIME :		19:00 - 05:00	<ul> <li>TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM TH AT THE POINT OF DESIGN.</li> </ul>	IOSE ESTABLISHED	VMS UTE : 0 TMA REQUIRED : 0	TMA REQUIRED : 0	DDV RE
	GARBA	GE COLL	ECTION DAY	:	TUESDAY	<ul> <li>ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLI</li> </ul>				
Call Altus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061	ISSUE DESG DATE		DATE	AMENDMENT	DESCRIPTION	THE TGS/TMP WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM ONLY FEED NEW PROVIDENCE OF ADDITIONAL INPUT FROM ONLY FEED NEW	DEVICE / EQUIPMENT REQUIREMENTS:			
	Α					- DAILY RECORD KEEPING SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INS WORKS	PECTIONS, DURING	TOTAL CONES 73	TOTAL SIGNS - 26	BARRIFI
	В					THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROV     STATE SPECIFIC COVERNANCE IS CHANCED	AL DATE OR WHERE	PTCD:0	1.8m STOP BAT/S : 5	
	С					AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF CO	MPLIANCE.	PTAB:0	THM'S / CHEVRON: 0	













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WORK AREA		ISOLA	TION/NO GO ZONE		TRAFFIC C	ONTROLLER	실 🙆	CONES - 700MM OR HIGHER		BOX EDGE / MMS - SIGN FRAME/STAND	
SPECIFIC WORKS		PLAN	T/ EQUIPMENT LAYDOWN		L				VMS BOARD	VMS TRAILER /	(SIGNAGE VEHICLE) (
		🛛 🕅 🕅	ORARY BUS STOP ZONE		POLICE OF	FICER	Ħ	BARRIER BOARD	┯┷┑╶┯┷┑	TRAILER ARROW BO	ARD
				<u> </u>	WORKER /	SPOTTER /		THM - TEMPORARY	<b>For I</b>	PTCD- PORTABLE TRAFFIC CONTROL	
QUE LENGTH		PEDE	STRIAN PATH	Λ	MARSHAL			CHEVRONS	4	DEVICE	(DROP DECK VEHIC
					ALTUS	S GROUP GE	NERAL N	NOTES - LIMITED TO	O NECESSA	RY NOTATIONS	
					FIC CONTROLLER	RS					POSITIONING OF SIGNS AND DEVICE
COMMENCING, THE IMPLEMENTER SHALL PROPOSED ACTIVITIES TO ENSURE THEY - THE ITCP SHALL CHECK THE ROAD ENVIR IT IS AT AN APPROPRIATE LEVEL FOR THE - A 5-MINUTE COUNT OF TRAFFIC SHOULD AGAINST VALUES RECORDED IN THE TMP - IF THE WORKSITE AND THE APPROVED TI IMPLEMENTER SHALL DETERMINE WHETT * MAKE COMPLIANT ADJUSTMENTS * CONTACT PERSONS WITH THE RI (E.G., ADDITIONAL SIGNS OR DIST * CONTACT THE RELEVANT ROAD I ACTIONS IDENTIFIED ON THE TMP OR LANE USAGE SIGNAGE). - WHERE THE TMP/TGS CANNOT BE SUITAI ROBSON CIVIL THAT THEY ARE NOT APPRO	L CHECK AND REVIEV ARE COMPLEMENT SONMENT, ESPECIAL TTM INTENDED. PROVIDE AN APPRO YTGS. MP ARE NOT COMPLI HER THEY CAN: S (E.G., LENGTHEN T, ELEVANT ACCREDIT ANCES OUTSIDE OF INFRASTRUCTURE M ITGS TO BE TAKEN (E BLY ADJUSTED OR M PRIATE, AND THE W	W THE APPRO REY AND ARE. LY THE "ON TH PRIATE ESTIM EMENTARY, BI APER WITHIN, ITION TO APPI TOLERANCES ANAGER TRA ANAGER TRA E.G., CHANGE ODIFIED, THE ORKS SHOUL	WILD MAD GAT, THE WORKSITE AND THE APPROPRIATE. HE DAY" TRAFFIC FLOWS, TO ENSURE TH ATE OF VOLUMES TO REFERENCE FORE OCCUPYING THE WORKSITE, THE TOLERANCES) TO THE TMP/TGS ROVE MODIFICATIONS TO THE TMP/TGS FFIC CONTROL FACILITY TO INITIATE IN THE VMS, VARIABLE SPEED LIMIT SIG IMPLEMENTER SHOULD ADVISE D BE POSTPONED.	HAT - SPI COU - AN - TR/ - EN: - EN: - EN: - MO - EN: - PCI - REI - WH - PL/ WH - IFT	EL SOME ELEM S EED SHALL BE 60 NTROLLER IF THE ESCAPE ROUTE S AFFIC CONTROLLI SURE A WORK VE E TRAFFIC CONTR SURE THAT TRAFI BU IS TO BE ENG/ LIEVE TRAFFIC CO IERE CONE TAPEF 'ER ON THE LEFT ACE FOUR TRAFFI TACE FOUR TRAFFI TACE FOUR TRAFFIC CG FOUR TRAFFIC SURE SA QUEUE	*THEY ARE PROPERLY DISP *THEY ARE PROPERLY DISP *THEY CAN NOT BE OBSCUF *THEY DO NOT OBSCURE O *THEY DO NOT DESCURE O *THEY DO NOT BECOME A P *THEY DO NOT BECOME A P *THEY DO NOT RESTRICT SI DRIVEWAYS. *THEY ARE NOT INSTALLED *TRAFFIC CONES AND BOLL OF DISPLACEMENT FROM, *TRAFFIC CONES AND BOLL PRESENT ON SITE. *STANDARD TRAFFIC CONE WHERE THE SPEED IS MOF - EDGE OF TRAFFIC LANE TO LINE O					
- ALL SITE INFORMATION WORK HOURS, IN DOCUMENTED ON THE TMP AND TGS AS - A COPY OF THE APPROVED TMP/TGS SHA	WELL AS AN APPROV	ED ON-SITE/V	ORKS RECORD.		ERTAKING MANEL	IE WITH THE DRIVERS IVERS OCCURRING IN STANCES ARE TRAFFIC	I ONCOMING TE	FIRST VEHICLE TO REMAIN VISIE RAFFIC. RS TO STAND OR OPERATE LINPE	ROTECTED IN A LANE	CARRYING TRAFFIC	*1.0M OFFSET FOR POSTED - EDGE OF TRAFFIC LANE TO ROAD
				- TR/ - EN	AFFIC CONTROLLI SURE A SINGLE T	ERS ARE TO ONLY CO RAFFIC CONTROLLER	MMUNICATE W	ITH A ROAD USER ONCE THE VEI ROLS MORE THAN ONE LANE OF	HICLE HAS STOPPED TRAFFIC OR MORE T	AND IS SAFE TO DO SO. HAN ONE APPROACH.	
- ALL PERSONS INVOLVED WITH TTM ACTIN DOCUMENTED ON THE SITE RECORDS. - THE TOOLBOX TALK FOR TTM STAFF IS U: "KEY ASPECTS OF THE TGS/TMP "IDENTIFIED HAZARDS "TTM REQUIREMENTS FOR THE W: "SAFETY ZONE REQUIREMENTS AI "COMMUNICATION PROCESSES	A S RE( - SO) THE *EN: *BE - TR/ SH( SIG	BINGLE TRAFFIC C QUIREMENT TO O ME INTERSECTIO EY ARE REQUIREL SURE THAT ROAD IN CONTINUOUS AFFIC CONTROLL OWN ON THE PLA SNAGE POSITIONS	ONTROLLER CAN OPI CCUR. NS REQUIRE THREE C D TO: USERS DO NOT SEE RADIO CONTACT WITH ERS ARE TO MONITOF N; WHERE QUES EXCI	ERATE TWO PT OR MORE TRAFI CONFLICTING I H EACH OTHER R END OF QUE S EED THIS PLAC	SS AT ONE TIME WHERE TRAINE FIC CONTROLLERS. WHERE MUL MESSAGES WHEN THEY ARE NOT VISIBLE T SUITABILITY BY PLACING TRAFFI EMENT, THEY ARE THEN REQUIF	D TO DO SO, AND TG .TIPLE TRAFFIC CON O EACH OTHER. C CONES AT THE ES' RED TO CONTACT PW	S IDENTIFIES THE TROLLERS ARE USED, TIMATED END OF QUE /ZTMP TO RE-EVALUATE	ALL EMERGENCY SERVICES VEHICL     CEASE ALL WORK IMMEDIATELY, TI     NOTIFY EMERGENCY SERVICES OI     DETAILS FOR THE SITE SUPERVISG     ITCP TO INSTALL A SITE-SPECIFIC I     OF VEHICLES REQUIRED TO USE T     ROADWAYS)			
				VULN	ERABLE ROAD U	SERS					TOLERANCES
IF A DRIVER DISOBEYS A TRAFFIC CONTROL INSTRUCTION:     * PRIORITISE PERSONAL SAFETY.     * USE THE PREDETERMINED ESCAPE ROUTE, IF NECESSARY.     * WARN OTHER MEMBERS OF THE CREW AS EARLY AS POSSIBLE. A WARNING SYSTEM MUST BE AGREED     UPON BEFOREHAND, SUCH AS RADIOS, WHISTLES, SHOUTING ETC.     THE FIRST PREFERENCE IS TO USE THE TWO-WAY RADIO TO COMMUNICATE WHERE AVAILABLE.     TAKE THE FOLLOWING ACTIONS IF AN INCIDENT OCCURS WITHIN THE TRAFFIC CONTROLLER'S DESIGNATED     WORKSITE OR TRAFFIC CONTROL OPERATIONAL AREA:         * FIRST AID RESPONSE (WHERE POSSIBLE).         * CALL FOR ASSISTANCE (IF NEEDED).         * CALL FOR ASSISTANCE (IF REQUIRED)         * NOTIFY THE WORKSITE SUPERVISOR OR TEAM LEADER AND ALTUS GROUP OFFICE/SUPERVISOR     * MAINTAIN EFFECTIVE TRAFFIC CONTROL OP A SUITABLE L OCATION THAT INCIDIES THE					E-SPECIFIC RISK D VALUE TO THE F ECIFIC CONTROLS TORCYCLISTS PC EQUENCY OF USE LNERABLE ROAD TORCYCLISTS AN "HAS THE LOO TRAVEL PATT "IS THERE SU CURVES? "IS THE ADVAI "IS THE ROAD	IF SIGNS AND DEVICES ARE REQUITHE INSTALLER SHALL CONTACT TJUDGEMENT WILL BE NECESSARY INDICATED.     SHOULD VARIATIONS TO THE RECCITHE SPACING WITHIN TOLERANCE     TOLERANCES FOR PLACEMENT OF         * UP TO 10% LESS THAN THI     BOLLARD INSTALLATION.         * UP TO 25% MORE THAN THI     ADJUSTMENTS TO A TTM INSTALLA         *ANY CHANGES THAT EXCE         AND ENDORSED BY AN APF  DESIGN FACTORS/OUTCOMES					
* OPERATIONAL AREA. * RECORD SUFFICIENT NOTES OF INCIDENT REPORT.	THE INCIDENT, INCLU	JDING THEIR	OBSERVATIONS, TO COMPLETE AN	- SIG	INS ARE TO FACE	- NATIONAL COMPLIANCE: AS1742.3 - LOCAL COMPLIANCE: TCAWS v6.1					
* CLEAR THE INCIDENT AREA OF A	NY ITEMS NOT PRES	ENT PRIOR T	O WORKS INSTALLATION	SIG	HT OF A MOTORIS	- LOCAL ROAD INFRASTRUCTURE REQUI - SITE IMPACT / TRAVEL TIME: - INNOVATIVE TREATMENTS:					
DUTY OF CARE				PURP	POSE:	- REVIEW PERFORMED: 04/12/2024 08:29     - OH&S ITEMS ARE HELD IN THE ALTUS GI     - REGISTERS: KEY PERSONNEL - HELD OI					
-ROBSON CIVIL ENSURES A COMMITMENT DUTY OF CARE TO THE WORKS AND ALL - ALTUS GROUP COMMITMENT AND OHS P - RESPONSIBILITIES SHALL BE HELD IN AC	TO RESPONSIBILITY ROAD USERS. ROCEESES CONTAIN CORDANCE WITH TH	OF IMPLEMEN	ITATION AND EXERCISING A HIS LINK : <u>HSEQ-SODC LINK</u> AND <u>SWMS</u> TCAWS v6.1	THE THE OF S	PURPOSE OF THI FOLLOWING SCO SAFETY OUTCOME	GROUP DAILY RECORDS AND INCIDENT CONSULTATION REGISTER - CONTIANS I - CONTINGENCY PLANNING: RESTORATIC ALTERATION UNTIL SUCH TIME THAT ALT					
PREFER SAFETY BUFFER WORK ZONE AREA		WORK	ND EXIT PROCESS	TE KIT Ø @_	- IF MISS - TRAFFI	- HIGHLIGHT SI AND LEAVING - PF RADIO THE TI OR FAIL ABOVE PR THE VEHICLE TC C CONTROLLERS A WORK - FLIP THE	TE ENTRY PO G A SMALL BRI RIOR ENTERIN TURN ON THE RAFFIC CONT DCEDURES, T D LOOP AROU LOOP AROU RE TO ENSUF ( VEHICLES IN SETUP FOR F	DINT WITH DOUBLE CONES EAK TO PULL IN SAFELY. NG WORKSITE: E FLASHING LIGHTS ROLLER A MINIMUM 100M PR RAFFIC CONTROLLERS ARE IND AND ATTEMPT REENTRY. RE THAT NO LOCAL TRAFFIC N THE WORK AREA FAST LANE CLOSURES	RIOR TO DIRECT FOLLOWS	SIGN COVER - ALL PERMAN BE SHOWN C WHEN REQU	N COVERS
BEST VIEWED DIGITALLY NOT TO SCALE	DATE OF DESIGN	l: 2024	SITE SETUP TGS AND SETUP RISK ASSESSMENT	NSUC	)1-SS	ALTUS GROUP DES	SIGN NUMBER	R: 24-12-76342-02	ars: 4/5	WORKSITE REQUIRE	EMENTS :
PRINT A3	TS RD, KE	MPS CREEK	CLIENT REFERENC	E NUMBER:	ТВС		TRAFFIC CONTROLI	LERS : 5 LERS - BREAKS : 2			
	BETWEEN ROAD	S:	ALDING	TON RD 8	N RD & MAMRE RD GENERAL DISCLAIMER:						UIE:3
	ESTIMATED JOB	DATE :	·. Pi		05/01/2025 -	CIL STAKEHOLDERS. STAKEHOLDERS. TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON STAKEHOLDERS. TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON STAKEHOLDERS.				SPECIALIST VEHICL	E REQUIREMENTS :
OGISTICS	ESTIMATED JOB	TIME :			19:00 - 05:00	WHICH THIS TGS/TMP IS BASED. - TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN. BOOD CIVIL BE SERVICE E FOR UNDER TAKING AN EVALUATION OF THE OTTO AND NUMBER OF THE POINT OF DESIGN.					TMA REQUIRED : 0 DDV RE
Call Altus Group				CRIDTION	TUESDAY	TRAFFIC CONDITIONS THE TGS/TMP.	AGAINST THE 'O	N-SITE APPLICATION CONSTRAINTS'			T REQUIREMENTS:
1300TRAFFIC (872 334) ABN 84 102 768 061	A	DATE		JUN		QUALIFIED INDIVIDUA - DAILY RECORD KEEPI	L/S SHALL BE SO	UGHT PRIOR TO IMPLEMENTATION. RFORMED, INCLUDING RELEVANT SIT	TE INSPECTIONS, DURIN		
	В					WORKS. - THIS TGS/TMP SHALL STATE-SPECIFIC GOVI	REMAIN VALID FO	OR 12 MONTHS FROM THE DESIGN AF	PROVAL DATE OR WHE	RE PTCD:0 PTAR:0	1.8m STOP BAT/S : 5 THM'S / CHEVRON: 0
	С					AT THIS POINT, THE TO	GS/TMP WILL NEE	D TO BE REVIEWED ON CURRENCY O	OF COMPLIANCE.	1 170.0	



OMMENDED SPACING BE REQUIRED, THEN IT IS GENERALLY PREFERABLE TO INCREASE

SIGNS AND DEVICES (SECTION 7.10.3 FROM TCAWS V6.1) ARE: E DISTANCES GIVEN FOR SIGNS AND DEVICES WITH NO MINIMUM DISTANCE FOR CONES/

HE DISTANCES GIVEN.

ATION: EED TOLERANCES ARE CLASSED AS A MODIFICATION/VERIATION AND SHALL BE AUTHORISED PROPRIATELY QUALIFIED INDIVIDUAL.

IREMENTS: PENRITH CITY COUNCIL

SROUP SWMS. ON TITLEBLOCK, INCIDENTS/VARIATIONS/COMPLIANCE/DAILY INSPECTIONS REGISTERS - HELD IN ALTUS I MANAGEMENT PROCESSES. PRIVATE CONTACT DETAILS AND IS HELD SEPARATE FROM GENERAL-USE DOCUMENTS. ON OF THE ROUTE IN EXISTENCE BEFORE IMPLEMENTATION OF THE TEMPORARY TRAFFIC ROUTE ITERNATIVE ARRANGEMENTS CAN BE DEVELOPED/DESIGNED.

		то	LERANCES IN DIS	STANCES - (ALL VALI	UES ARE IN METERS)				
			MEASUREMENT	- 10%	+ 25%				
			15	13	18				
			20	18	25				
			30	27	37				
			45	41	56				
			60	54	75				
			90	81	112				
			APPRO	VED FOR	CLIENT CONTACT : ROBSON CIVIL				
	IMPLEN WHEN USED WITH R			ENIATION AD AUTHORITY APPROVAL	GERARD NOONE 04 39 246 804				
			APPROVED BY - D	ESIGNER :					
			SA HAMDAN	N – TCT1024722					
			REVIEW OR DEPAT	URE APPROVED BY:					
QUIF	QUIRED : 0		CRAIG RUMI	NG - TCT0016012	ROBSON				
			APPROVAL DATE:	04/12/2024	CIVIL PROJECTS				
		· • 0	ALTUS GROUP NO	MINATED CONTACT :					
1 00	ARDS		24HR CONTAG	CT - 1300 872 334					
			SHEET NO :	2 OF 10					

BEST VIEWED DIGITALLY	DATE C	F DESIGN	l:	SITE SETUP TGS AND		ALTUS GROUP DESIGN NUMBER: 24-12-76342-02	ars: 4/5	WORKSITE REQUIREMENTS :		
NOT TO SCALE		02/12/2024 SETUP RISK ASSESSMENT								
PRINT A3	WORK	S LOCATIO	ON :	ABE	BOTTS RD, KEMPS CREEK			TRAFFIC CONTROLLERS - BREAKS : 2 TRAFFIC CONTROL UTE : 3		
	BETWE	EEN ROAD	)S :	ALC	DINGTON RD & MAMRE RD	GENERAL DISCLAIMER:				
Call Altus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061	WORK	SITE ROA	D AUTHORIT	Y:	PENRITH CITY COUNCIL	- THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SU STAKEHOLDERS.	SPECIALIST VEHICLE REQUIREMENTS :			
	ESTIM	ATED JOB	DATE :		05/01/2025 -	TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT WHICH THIS TGS/TMP IS BASED.				
	ESTIM	ATED JOB	TIME :		19:00 - 05:00	AT THE POINT OF DESIGN.	IUSE ESTABLISHED	VMS UTE : 0 TMA REQUIRED : 0		DDV RE
	GARB	AGE COLL	ECTION DAY	:	TUESDAY	<ul> <li>ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE STIE TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLI THE TOSTMO</li> </ul>				
		ISSUE DESG DATE		AMENDMENT	DESCRIPTION	- WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM	DEVICE / EQUIPMENT REQUIREMENTS:			
	IONAL A					<ul> <li>DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INS WORKS.</li> </ul>	PECTIONS, DURING	TOTAL CONES : 69	TOTAL SIGNS : 26	BARRIEF
	В			- THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPF STATE-SPECIFIC GOVERNANCE IS CHANGED				PTCD:0	1.8m STOP BAT/S : 5	
	С					AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF CO	MPLIANCE.			
MENDING AND SCREETSALT MALE MALE						And the second sec		and the second sec	And the second s	





CLIENT CONTACT: ROBSON CIVIL GERARD NOONE 04 39 246 804



FOR ALL DESIGN INFORMATION/ REQUIRMENTS AND SPECIALIST VEHCILE / DEVICES REFER TO MAIN COVER PAGE (PG 1)

DRAWING NUMBER:

24-12-76342-02

APPROVED FOR IMPLEMENTATION WHEN USED WITH ROAD AUTHORITY APPROVA

APPROVED BY - DESIGNER :

SA HAMDAN – TCT1024722

REVIEW OR DEPARTURE APPROVED BY: CRAIG RUMING - TCT0016012

APPROVAL DATE: 04/12/2024

ALTUS NOMINATED CONTACT:

24Hr Contact - 1800 872 334

SHEET NO: 4 OF 10

GENERAL DISCLAIMER:

- THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SUPPLIED BY ALL STAKEHOLDERS. - TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT INFORMATION ON WHICH THIS TGS/TMP IS BASED.

- TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM THOSE ESTABLISHED AT THE POINT OF DESIGN.

- ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE AND TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLINED WITHIN THE TGS/TMP. - WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM TM BESIGN QUALIFIED INDIVIDUAL'S SHALL BE SOUGHT PRIOR TO IMPLEMENTATION. - DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSPECTIONS, DURING WORKS. - THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROVAL DATE OR WHERE STATE-SPECIFIC GOVERNANCE IS CHANGED.

- AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF COMPLIANCE.





ABN 84 102 768 061 SCI QUAL SC





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BEST VIEWED DIGITALLY	DATE O	F DESIGN	: 024	SITE SETUP TGS AND	NSU01-SS	ALTUS GROUP DESIGN NUMBER: 24-12-76342-02 ARS: 4/5		WORKSITE REQUIRE	EMENTS :		APPROVED FOR	CLIENT CONTACT : ROBSON CIVIL	
PRINT A3	WORKS LOCATION : ABB				BOTTS RD, KEMPS CREEK		TRAFFIC CONTROLL TRAFFIC CONTROLL	_ERS : 5 _ERS - BREAKS : 2		IMPLEMENTATION WHEN USED WITH ROAD AUTHORITY APPROVAL	GERARD NOONE 04 39 246 804		
	BETWE	EN ROAD	S :	ALD	INGTON RD & MAMRE RD	GENERAL DISCLAIMER:	TRAFFIC CONTROL	UTE : 3		APPROVED BY - DESIGNER :			
Call Altus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061	WORKS			Υ:	PENRITH CITY COUNCIL	THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SU- STAKEHOLDERS.     TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT	SPECIALIST VEHICLI	E REQUIREMENTS :		SA HAMDAN – 1C11024722			
	ESTIMA		DATE :		10:00 05:00	WHICH THIS TGS/TMP IS BASED. - TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM TH				REVIEW OR DEPATURE APPROVED BY:			
	GARBA	GE COLL	ECTION DAY	·:	TUESDAY	<ul> <li>AT THE POINT OF DESIGN.</li> <li>ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLIN</li> </ul>	VMS OTE : 0 IMA REQUIRED : 0 DDV REQUIRED : 0			CRAIG RUMING - TCT0016012	<b>C</b> ROBSON		
	ISSUE DESG DATE AMENDMENT			AMENDMENT	DESCRIPTION	THE TGS/TMP.     WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM     WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM     WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FROM	DEVICE / EQUIPMEN	T REQUIREMENTS:		APPROVAL DATE: 04/12/2024	CIVIL PROJECTS		
	A B C					DAILY RECORD KEEPING SHALL BE SOUGHT PRIOR TO IMPLEMENTATION.     DAILY RECORD KEEPING SHALL BE PERFORMED, INCLUDING RELEVANT SITE INSI WORKS	IPLEMENTATION. DING RELEVANT SITE INSPECTIONS, DURING		ONES : 69 TOTAL SIGNS : 26	BARRIER BOARDS : 0	ALTUS GROUP NOMINATED CONTACT :		
						THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROV STATE-SPECIFIC GOVERNANCE IS CHANGED.	VAL DATE OR WHERE	PTCD:0 PTAB:0	1.8m STOP BAT/S : 5		24HR CONTACT - 1300 872 334	1	
						AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF CO	IPLIANCE.				SHEET NO : 6 OF 10		

BEST VIEWED DIGITALLY	DATE O	F DESIGN	l:	SITE SETUP TGS AND	NSU01 88	ALTUS GROUP DESIGN NUMBER: 24-12-76342-02	ars: 4/5	WORKSITE REQUIREMENTS :		
NOT TO SCALE		02/12/2	024	SETUP RISK ASSESSMENT	<u>N3001-33</u>			- TRAFFIC CONTROLLERS : 5		
PRINT A3	WORKS	S LOCATIO	LOCATION : ABBOTTS RD, KEMPS CREEK			CLIENT REFERENCE NUMBER: TBC		TRAFFIC CONTROLLERS - BREAKS : 2		
	BETWE	EN ROAD	)S :	ALD	INGTON RD & MAMRE RD	GENERAL DISCLAIMER:		TRAFFIC CONTROL UTE : 3		
	WORKS	SITE ROA	D AUTHORIT	Y:	PENRITH CITY COUNCIL	<ul> <li>THE TGS/TMP HAS BEEN PREPARED IN ACCORDANCE WITH THE INFORMATION SI STAKEHOLDERS.</li> </ul>	UPPLIED BY ALL	SPECIALIST VEHICLE REQUIREMENTS :		
	ESTIMA	TED JOB	DATE :		05/01/2025 -	<ul> <li>TECHNICAL DUE CARE HAS BEEN APPLIED IN THE COLLATION OF THE RELEVANT WHICH THIS TGS/TMP IS BASED.</li> </ul>	INFORMATION ON			-
	ESTIMA	TED JOB	TIME :		19:00 - 05:00	<ul> <li>TRAFFIC AND SITE CONDITIONS AT THE TIME OF THE WORKS MAY VARY FROM TH AT THE POINT OF DESIGN.</li> </ul>	IOSE ESTABLISHED	VMS UTE : 0 TMA REQUIRED : 0 [		DDV RE
	GARBA	GE COLL	ECTION DAY	:	TUESDAY	<ul> <li>ROBSON CIVIL IS RESPONSIBLE FOR UNDERTAKING AN EVALUATION OF THE SITE TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLI THE TRAFFIC CONDITIONS AGAINST THE 'ON-SITE APPLICATION CONSTRAINTS' OUTLI</li> </ul>				
Call Alfus Group Toll Free (Australia) 1300TRAFFIC (872 334) ABN 84 102 768 061	ISSUE	DESG	DATE	AMENDMENT	DESCRIPTION	THE TGS/TMP. - WHERE CONDITIONS VARY FROM THOSE DOCUMENTED, ADDITIONAL INPUT FRO OLIVALITY PURPORT OF THE SOLICITY PRIOR TO UNDERNET TO THE EVENT TO THE TO THE TOTAL OF TOTAL OF THE TOTAL OF TOTAL OF THE TOTAL OF THE TOTAL OF	DEVICE / EQUIPMENT REQUIREMENTS:			
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	В					- THIS TGS/TMP SHALL REMAIN VALID FOR 12 MONTHS FROM THE DESIGN APPROV	AL DATE OR WHERE	PTCD:0 1.8m STOP BAT/S:		
	С					AT THIS POINT, THE TGS/TMP WILL NEED TO BE REVIEWED ON CURRENCY OF CO	MPLIANCE.	PIAB: U	THM'S / CHEVRON: 0	








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1.	Provide Article						Sec. 1. 1	
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## Appendix D. Verification Checklist

TGS Verification must be undertaken after selecting or designing a TGS as a confirmation of appropriateness prior to approval for use. A PWZTMP or TGS qualified person must undertake this verification.

Completed by:					
Name:	Emily Duan	Signature:			
Qualification	Traffic Engineer Ticket No. TCT1054771		-		
TGS details:					
TMP Reference:	P2264r03v03 CTMP_Mamre Rd, Abbotts Rd and Aldington Rd Upgrade, Issue III	TGS Reference:			
18	18/10/2024	Review type	□ Site Insp	pection	☑ Desktop Review
Sources used for desktop review	Near Map, Dated 16/07/2024.				
Site details					
Street name:	Mamre Road	Confirmed posted s limits:	speed	80km/	h
Street name:	Abbotts Road	Confirmed posted s limits:	speed	60km/	h
Street name:	Aldington Road	Confirmed posted s limits:	speed	60km/	h
List unique site-specific Hazards / Risks identified on site. E.g., utilities, infrastructure, vegetation, schools,					
n/a					



### TGS details

### Have the below been addressed on the TGS for this location?

Traffic volumes	⊠ Yes	□ No	□ N/A	Details	Traffic volumes have been assessed for Abbotts Road, Mamre Road, and Aldington Road.
Predicted queue length	⊻ Yes	□ No	□ N/A	Details	As Abbotts Road has low traffic movements, there is sufficient distance available to manage any potential internal queuing without disrupting traffic flow on the main road - Mamre Road.
Shoulder widths	☐ Yes	□ No	⊠ N/A	Details	Abbotts Road and Aldington Road have no formed road shoulder.
Sight distances	⊠ Yes	□ No	□ N/A	Details	Straight road with no obstructions and good sight distance.
Existing infrastructure	⊠ Yes	□ No	□ N/A	Details	No trees in the immediate area. Electrical pole on the corner of Abbott Road and Aldington Road, however not in the vicinity of the Site access.
Transport services	⊠ Yes	□ No	□ N/A	Details	There is no bus stop directly fronting the Site and will not be affected by the construction works.
Pedestrian generators	⊠ Yes	□ No	□ N/A	Details	Pedestrians are given right of way as far as possible, however no footpaths are located within the vicinity of the Site.
Appropriate site access	⊠ Yes	□ No	□ N/A	Details	Appropriate site access for largest vehicle.
Appropriate escape route for traffic controllers	⊠ Yes	□ No	N/A	Details	Traffic controllers will be positioned away from the road and have a 6m-wide verge area adjacent to Abbotts Road as an escape route in case of an incident, ensuring their safety. Furthermore, a service vehicle will be placed next to the traffic controller to maximise safety.



Appendix E. Evidence of Consultation



### Emily Duan

From	Dichard Datarson crichard patarson trigalana@outlook.com>
FIOIII.	Kichard Peterson < richard.peterson-tingalana@odtiook.com>
Sent:	Wednesday, 2 October 2024 4:56 PM
To:	Ignacio (Nacho) Vazquez Hume; carl.vincent@ersed.com.au
Cc:	Alex Lohrisch; Alasdair Cameron; Ellie Bargh
Subject:	Re: MAIU & AARU - CEMP
Attachments:	610.31166.00000-R07-v1.1-20240813 (RP Comments).pdf; AARU and
	MAIU_Contingency Plan (ER comments).pdf; AARU and MAIU_DDMP_Rev 03 (Rp
	comments).pdf

### Hi Nacho

No comments on the following documents:

- Salinity Management Plan
- Fill Management Plan
- Waste Management Plan
- Unexpected Finds Contamination Procedure
- Construction Flora and Fauna Management Plan
- Heritage Management Plan

Comments on the:

- Construction Traffic Management Plan (attached)
- Contingency Management Plan (attached)
- Dam Dewatering (attached)

I think this is it for AARU

I will have a look at the next batch shortly



Richard Peterson | Director Trigalana Environmental Pty Ltd M: 0429 227 775

E: <u>Richard.peterson-trigalana@outlook.com</u>

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From: Richard Peterson <richard.peterson-trigalana@outlook.com> Sent: Wednesday, 2 October 2024 12:11 PM To: Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>; carl.vincent@ersed.com.au <carl.vincent@ersed.com.au> Cc: Alex Lohrisch <Alex.L@atl.net.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Ellie Bargh <Ellie.b@atl.net.au> Subject: Re: MAIU & AARU - CEMP

Hi Nacho

Comments on the comms plan is attached.

Cheers



Richard Peterson | Director Trigalana Environmental Pty Ltd M: 0429 227 775 E: Richard.peterson-trigalana@outlook.com

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From: Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au> Sent: Monday, 30 September 2024 5:15 PM To: Richard Peterson <richard.peterson-trigalana@outlook.com>; carl.vincent@ersed.com.au <carl.vincent@ersed.com.au> Cc: Alex Lohrisch <Alex.L@atl.net.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Ellie Bargh <Ellie.b@atl.net.au> Subject: RE: MAIU & AARU - CEMP

Thanks Richard!

I'll be addressing your comments with the sub consultants and updating the documents in the same live folder.

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



Cordeaux Dam Photo by our Senior Project Manager - Andrew Byrne



Sydney | Melbourne | Brisbane www.atl.net.au

Level 7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 0431 278 776



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From: Richard Peterson <richard.peterson-trigalana@outlook.com> Sent: Monday, 30 September 2024 4:38 PM To: Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>; carl.vincent@ersed.com.au Cc: Alex Lohrisch <Alex.L@atl.net.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Ellie Bargh <Ellie.b@atl.net.au> Subject: Re: MAIU & AARU - CEMP

Hi Nacho

I will send these one by one to keep the ball rolling.

There are a lot of documents.

- CEMP, CNVMP and AQMP comments attached
- •



Richard Peterson | Director Trigalana Environmental Pty Ltd M: 0429 227 775 E: Richard.peterson-trigalana@outlook.com

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From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>> Sent: Monday, 30 September 2024 11:09 AM To: Richard Peterson <<u>richard.peterson-trigalana@outlook.com</u>>; <u>carl.vincent@ersed.com.au</u> <<u>carl.vincent@ersed.com.au></u> Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh <<u>Ellie.b@atl.net.au</u>> Subject: RE: MAIU & AARU - CEMP

Hi Richard, Carl

Just following up on the email below. Have you had a chance to review the plans?

Please let me know.

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



Sydney | Melbourne | Brisbane www.atl.net.au

Level 7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 0431 278 776





Cordeaux Dam Photo by our Senior Project Manager - Andrew Byrne

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From: Richard Peterson <<u>richard.peterson-trigalana@outlook.com</u>> Sent: Monday, 23 September 2024 5:07 PM To: Ignacio (Nacho) Vazquez Hume <<u>lgnacio.v@atl.net.au</u>>; <u>carl.vincent@ersed.com.au</u> Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh <<u>Ellie.b@atl.net.au</u>> Subject: Re: MAIU & AARU - CEMP

Thank you Ignacio

I will have a look at this and discuss with Carl tomorrow.

If any questions will give you a call.

Cheers

Richard Peterson | Director Trigalana Environmental Pty Ltd M: 0429 227 775



E: <u>Richard.peterson-trigalana@outlook.com</u>

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From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>> Sent: Monday, 23 September 2024 8:56 AM To: <u>carl.vincent@ersed.com.au</u> <<u>carl.vincent@ersed.com.au</u>>; <u>richard.peterson-trigalana@outlook.com</u> <<u>richard.peterson-trigalana@outlook.com</u>> Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh <<u>Ellie.b@atl.net.au</u>> Subject: MAIU & AARU - CEMP

Hi Carl, Richard,

I hope this email finds you well.

I'm reaching out to seek your consultation on the CEMP for the External Road Works associated with MOD 5 to SSD-9138102 (MAIU and AARU). This is part of our compliance with the requirements under Condition D25, which mandates the preparation of the CEMP in consultation with relevant stakeholders before commencement.

To provide context, there will be three separate overarching CEMPs for the following projects:

- MAIU
- AARU Phase 1
- AARU Phase 2

All three CEMPs will utilize the same set of sub-reports, which cover the scope of these projects. This approach ensures consistency in managing traffic, environmental monitoring, and other key aspects while addressing the specific requirements of each phase. AARU Phase 2 overarching CEMP report is still to be drafted.

Please find the link below to the CEMP's folders for your review, which contain the Construction Traffic Management Plan for all three projects. We would appreciate your feedback and any recommendations within the next week to help us stay on schedule and comply with the consent conditions.

AARU CEMP (See Annexure J - CTMP) MAIU CEMP (See Annexure J - CTMP)

If there is any additional information you require or if you would like to arrange a meeting to discuss further, please feel free to reach out.

Thank you for your attention, and I look forward to your response.

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



Sydney | Melbourne | Brisbane www.atl.net.au

Level 7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 0431 278 776





Lake Parramatta, Parramatta Photo by our Associate | WSC Team Lead - Samantha Bennett

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### Emily Duan

From:John Skaf < John.Skaf@penrith.city>Sent:Wednesday, 25 September 2024 1:51 PMTo:Ignacio (Nacho) Vazquez HumeCc:Alex Lohrisch; Alasdair Cameron; Ellie BarghSubject:RE: MAIU & AARU - CEMP

Hi Nacho,

Thank you for the chat earlier. As discussed, I have forwarded the submitted CEMP documents to our Environmental team for their review and to provide me with feedback. I will keep you updated as soon I receive their comments.

Please feel free to contact me if you have any questions.

Kind Regards, John Skaf Senior Engineer - Major Developments Engineering Services

E John.Skaf@penrith.city T +61247328085 | F | M +61427304533 PO Box 60, PENRITH NSW 2751 www.visitpenrith.com.au www.penrithcity.nsw.gov.au

PENRITH CITY COUNCIL



From: Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au> Sent: Monday, September 23, 2024 8:50 AM To: John Skaf <John.Skaf@penrith.city> Cc: Alex Lohrisch <Alex.L@atl.net.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Ellie Bargh <Ellie.b@atl.net.au> Subject: MAIU & AARU - CEMP

## **EXTERNAL EMAIL:** This email was received from outside the organisation. Use caution when clicking any links or opening attachments.

I am writing to seek Council's consultation on the Construction Environmental Management Plan (CEMP) for the External Road Works associated with the Mamre and Abbotts Intersection Upgrade (MAIU) and Aldington and Abbotts Road Upgrade (AARU). This is in accordance with Condition D25(a) of SSD-9138102 MOD5, which requires the CEMP to be prepared in consultation with Council prior to the commencement of the External Road Works.

To provide context, there will be three separate overarching CEMPs for the following projects:

- MAIU
- AARU Phase 1
- AARU Phase 2

All three CEMPs will utilize the same set of sub-reports, which cover the scope of these projects. This approach ensures consistency in managing traffic, environmental monitoring, and other key aspects while addressing the specific requirements of each phase.

Please find the link below to the CEMP's folders for your review, which contain the Construction Traffic Management Plan for all three projects. We would appreciate your feedback and any recommendations within the next week to help us stay on schedule and comply with the consent conditions.

AARU CEMP (See Annexure J - CTMP) MAIU CEMP (See Annexure J - CTMP)

If there is any additional information you require or if you would like to arrange a meeting to discuss further, please feel free to reach out.

Thank you for your attention, and I look forward to your response.

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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Photo by our Associate | WSC Team Lead - Samantha Bennett

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### Emily Duan

From:	Peter Wark
Sent:	Wednesday, 25 September 2024 9:53 AM
To:	Suthes Kumar
Cc:	Ignacio (Nacho) Vazquez Hume; Alex Lohrisch; Ellie Bargh; Alasdair Cameron;
	Richard Harris; Michaela Leerdam; khalid.javed@zamrengineering.com.au;
	bibek.dallakoti@zamrengineering.com.au
Subject:	RE: MAIU - CEMP and Community Consultation
Attachments:	630.031625.00001_CCSCHP v.03 Final.pdf; FW: Council's Advice on TGS Plans
	Prepared for Stage 1 Works of AARU; 2024-09-09 Distribution register.xlsx;
	2024.07.09_Comments from TfNSW on TMP ATL 24-09-25.docx

Hi Suthes,

Please find attached:

- the TMC review comments with responses updated
- PCC endorsement of the TMP including the RT ban at Abbotts Rd
- Copy of the Community Consultation Strategy which includes a copy of the consultation letters issued regarding the construction traffic management and the RT ban proposal
- Copy of the Community Consultation distribution register

I also provide a copy of the CEMP which includes the CTMP and CCS. MAIU CEMP

We already have a number of responses from stakeholders and will compile all responses once the consultation is completed.

Regards,

Peter Wark Associate Director - Civil Engineer



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Narrabeen - NSW Photo by our Director | People & Culture - Heidi Crawford

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in O

From: Suthes Kumar <Suthes.KUMAR@transport.nsw.gov.au> Sent: Wednesday, 25 September 2024 8:00 AM

To: Peter Wark <peter.w@atl.net.au>

Cc: Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>; Alex Lohrisch <Alex.L@atl.net.au>; Ellie Bargh <Ellie.b@atl.net.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Richard Harris

<richard.harris@fifecapital.com.au>; Michaela Leerdam <Michaela.Leerdam@frasersproperty.com.au>; khalid.javed@zamrengineering.com.au; bibek.dallakoti@zamrengineering.com.au Subject: RE: MAIU - CTMP

Hi Peter,

Could you please send me the comments sheet with responses to TMC's comments.

Regards Suthes Kumar Project–Contract Manager Developer Works Greater Sydney Transport for NSW

M: 0408 655 528 E: <u>Suthes.Kumar@transport.nsw.gov.au</u>

transport.nsw.gov.au

129a Orchardleigh Street Yennora NSW 2161



Transport for NSW

OFFICIAL

OFFICIAL

From: Peter Wark <<u>peter.w@atl.net.au</u>> Sent: Tuesday, September 24, 2024 5:30 PM To: Suthes Kumar <<u>Suthes.KUMAR@transport.nsw.gov.au</u>> Cc: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>; Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Ellie Bargh <<u>Ellie.b@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Richard Harris <<u>richard.harris@fifecapital.com.au</u>>; Michaela Leerdam <<u>Michaela.Leerdam@frasersproperty.com.au</u>>; khalid.javed@zamrengineering.com.au; bibek.dallakoti@zamrengineering.com.au Subject: MAIU - CTMP

CAUTION: This email is sent from an external source. Do not click any links or open attachments unless you recognise the sender and know the content is safe.

Hi Suthes,

Please find attached the revised CTMP from ASON which addresses the issue of traffic volumes generation for the intersection during construction. Should you have any questions please let us know.

P2264r03v02 CTMP\_Mamre Rd, Abbotts Rd and Aldington Rd Upgrade, Issue II (with TGS).pdf

Regards,

Peter Wark Associate Director - Civil Engineer



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### **Alasdair Cameron**

From:	Nav Prasad (TRAFFIC SAFETY) <nav.prasad2@transport.nsw.gov.au></nav.prasad2@transport.nsw.gov.au>
Sent:	Thursday, 13 February 2025 2:26 PM
То:	Alasdair Cameron
Cc:	Pahee Rathan; Brendan Pegg
Subject:	FW: Council Advice RE: MAIU & AARU - CEMP

### [\*\*EXTERNAL EMAIL\*\*]

Hi Alasdair,

TfNSW Land Use Assessment have reviewed the submitted documentation and has no objections or further comments on the CTMP for the approved road works in Abbots Road, Kemps Creek.

Please ensure that any necessary ROL's for works affecting the classified road network are obtained from TMC.

Regards

Nav Prasad Land Use Planner Transport Planning Planning, Integration and Passenger Transport for NSW

T (02) 9983 3193 E Nav.Prasad2@transport.nsw.gov.au Level 4, 4 Parramatta Square, 12 Darcy Street, Parramatta NSW 2150

Please note that I do not work on Wednesdays



Transport for NSW

OFFICIAL

From: Alasdair Cameron <Alasdair.Cameron@esr.com>
Sent: Monday, 10 February 2025 2:02 PM
To: Nav Prasad (TRAFFIC SAFETY) <Nav.Prasad2@transport.nsw.gov.au>
Subject: FW: Council Advice RE: MAIU & AARU - CEMP

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Alasdair Cameron | Infrastructure Delivery Director



ESR Australia & New Zealand Level 13, 39 Martin Place, Sydney 2000 | au.esr.com M +61 402 458 226 D +61 2 9506 1430 E Alasdair.Cameron@esr.com Follow us on LinkedIn

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From: John Skaf <John.Skaf@penrith.city>
Sent: Friday, 29 November 2024 9:56 AM
To: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Cc: Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Alex Lohrisch <<u>Alex.L@atl.net.au</u>>
Subject: RE: Council Advice RE: MAIU & AARU - CEMP

### [\*\*EXTERNAL EMAIL\*\*]

Hi Nacho,

I reviewed the prepared CTMP and I can advise that in principle Council has no objections on the proposed CTMP for MAIU and Phase 1 upgrade for AARU. Phase 2 of AARU will be assessed following the development approval for these works.

It is noted that the CTMP refers to the largest vehicle as truck and dog accessing the site. It would be appropriate for this CTMP to also make reference to the OTMP prepared for Warehouse 1 (Toll) as larger vehicles may be required to access the site to service Warehouse 1. Further, Appendix C – TGS – has a plan on page 74 showing a detour route along Aldington Road and Bakers Lane. Can you please clarify the intention of this plan noting that no construction or heavy vehicles are permitted to use Bakers Lane?

Kind Regards,

John Skaf Senior Engineer - Major Developments

E John.Skaf@penrith.city T <u>+61 2 4732 8085</u> | M <u>+61 427 304 533</u> PO Box 60, PENRITH NSW 2751 <u>www.visitpenrith.com.au</u> www.penrithcity.nsw.gov.au



From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Sent: Monday, 25 November 2024 1:34 PM
To: John Skaf <<u>John.Skaf@penrith.city</u>>
Cc: Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Alex Lohrisch <<u>Alex.L@atl.net.au</u>>
Subject: RE: Council Advice RE: MAIU & AARU - CEMP

Hi John,

Thanks for closing all comments on the environmental management plans of the CEMP. However, we haven't yet received your feedback on the CTMP, which is included in Annexure J of the CEMP.

Here is a direct link to it.

P2264r03v03 CTMP\_Mamre Rd, Abbotts Rd and Aldington Rd Upgrade, Issue III.pdf

I'd appreciate your prompt response on this.

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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Level 7, 153 Walker Street North Sydney NSW 2060

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Yarra River, Melbourne Photo by our Associate | Manager - Kunjan Patel

> AT&L Christmas Closure 23rd December 2024 - 3rd January 2025

Please note I currently work based on a 9-day fortnight schedule with every second Friday as my designated day off. As a result, I may not be contactable on those days. If you require urgent assistance, one of my colleagues will be available to assist you. Thank you for your understanding

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From: John Skaf <<u>John.Skaf@penrith.city</u>>
Sent: Thursday, 7 November 2024 8:00 AM
To: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Subject: RE: Council Advice RE: MAIU & AARU - CEMP

Thank you, Ignacio.

This addresses Council's comment.

Kins Regards,

John Skaf Senior Engineer - Major Developments Engineering Services

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## Get your child car seat checked or installed!

Saturday 2 November 2024 or Saturday 15 March 2025 BOOK YOUR TIMESLOT

From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Sent: Thursday, 31 October 2024 4:04 PM
To: John Skaf <<u>John.Skaf@penrith.city</u>>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>
Subject: RE: Council Advice RE: MAIU & AARU - CEMP

Hi John,

Here is the revised plan - Appendix F (UCFP) - to close out all comments.

Thanks

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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Level 7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 0431 278 776

in 🖸



Please note I currently work based on a 9-day fortnight schedule with every second Friday as my designated day off. As a result, I may not be contactable on those days. If you require urgent assistance, one of my colleagues will be available to assist you. Thank you for your understanding

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From: John Skaf <John.Skaf@penrith.city>
Sent: Wednesday, 30 October 2024 7:21 AM
To: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh
<<u>Ellie.b@atl.net.au</u>>
Subject: Council Advice RE: MAIU & AARU - CEMP

Hi Nacho,

My apologies for the delay in reviewing the CEMP. I just received the comments from our Environmental team raising no objections to the CEMP but noted the following:

Appendix C is the Construction Noise and Vibration Management Plans. Noise in the Mamre Road Precinct is assessed by DPHI and so therefore has not formed part of Council's review. Also, in Appendix F (UCFP) within the flow chart for unexpected contamination finds there is some missing text from a box on the lower right-hand side. The chart still makes sense; however, this missing text should be included.

Please feel free to contact me if you have any questions.

#### Kind Regards,

#### John Skaf

Senior Engineer - Major Developments Engineering Services

E John.Skaf@penrith.city T +61247328085 | F | M +61427304533 PO Box 60, PENRITH NSW 2751 www.visitpenrith.com.au www.penrithcity.nsw.gov.au

PENRITH CITY COUNCIL





### Get your child car seat checked or installed!

Saturday 2 November 2024 or Saturday 15 March 2025 BOOK YOUR TIMESLOT

From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Sent: Wednesday, 16 October 2024 7:53 AM
To: John Skaf <<u>John.Skaf@penrith.city</u>>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh
<<u>Ellie.b@atl.net.au</u>>
Subject: RE: MAIU & AARU - CEMP

#### Hi John,

I wanted to check in to see if there has been any feedback from your team yet. I'm aiming to close out the consultation this week and would like to request endorsement from the ER soon. Let me know if there's any update.

#### Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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Level 7, 153 Walker Street North Sydney NSW 2060



Circular Quay, Sydney Photo by our Civil Engineer | Superintendent - Ignacio Vazquez Hume

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From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Sent: Sunday, 13 October 2024 9:06 PM
To: John Skaf <<u>John.Skaf@penrith.city</u>>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh
<<u>Ellie.b@atl.net.au</u>>
Subject: Re: MAIU & AARU - CEMP

Thanks John, let's talk on Tuesday.

#### Obtener Outlook para Android

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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Blue Mountains, NSW Photo by our People & Culture Administrator - Nicola Jordan

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From: John Skaf <John.Skaf@penrith.city>
Sent: Sunday, October 13, 2024 8:24:03 PM
To: Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh
<<u>Ellie.b@atl.net.au></u>
Subject: RE: MAIU & AARU - CEMP

Hi Nacho,

Apologies for the delay in providing Council's comments on the CEMP. I have sent a follow up request to our Environmental team last week for an update on their review and I'm waiting on their feedback. I will contact them again Tuesday if I don't hear back by then and keep you updated.

Kind Regards,

John Skaf Senior Engineer - Major Developments Engineering Services

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From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Sent: Wednesday, 2 October 2024 6:35 PM
To: John Skaf <<u>John.Skaf@penrith.city</u>>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh
<<u>Ellie.b@atl.net.au</u>>
Subject: RE: MAIU & AARU - CEMP

## **EXTERNAL EMAIL:** This email was received from outside the organisation. Use caution when clicking any links or opening attachments.

Hi John,

Just checking in—have you received any feedback from your Environmental team yet on the submitted CEMP documents? It would be great to get an update on their comments so we can stay on track.

Thanks!

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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From: John Skaf <<u>John.Skaf@penrith.city</u>>
Sent: Wednesday, 25 September 2024 1:51 PM
To: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>

## Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh <<u>Ellie.b@atl.net.au</u>>

Subject: RE: MAIU & AARU - CEMP

Hi Nacho,

Thank you for the chat earlier. As discussed, I have forwarded the submitted CEMP documents to our Environmental team for their review and to provide me with feedback. I will keep you updated as soon I receive their comments.

Please feel free to contact me if you have any questions.

#### Kind Regards, John Skaf Senior Engineer - Major Developments Engineering Services

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WEDNESDAY 2 OCTOBER City Park, Penrith

WEDNESDAY 9 OCTOBER Coachmans Park, St Marys

From: Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>>
Sent: Monday, September 23, 2024 8:50 AM
To: John Skaf <<u>John.Skaf@penrith.city</u>>
Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ellie Bargh
<<u>Ellie.b@atl.net.au</u>>
Subject: MAIU & AARU - CEMP

## **EXTERNAL EMAIL:** This email was received from outside the organisation. Use caution when clicking any links or opening attachments.

Hi John,

I am writing to seek Council's consultation on the Construction Environmental Management Plan (CEMP) for the External Road Works associated with the Mamre and Abbotts Intersection Upgrade (MAIU) and Aldington and Abbotts Road Upgrade (AARU). This is in accordance with Condition D25(a) of SSD-9138102 MOD5, which requires the CEMP to be prepared in consultation with Council prior to the commencement of the External Road Works.

To provide context, there will be three separate overarching CEMPs for the following projects:

- MAIU
- AARU Phase 1
- AARU Phase 2

All three CEMPs will utilize the same set of sub-reports, which cover the scope of these projects. This approach ensures consistency in managing traffic, environmental monitoring, and other key aspects while addressing the specific requirements of each phase.

Please find the link below to the CEMP's folders for your review, which contain the Construction Traffic Management Plan for all three projects. We would appreciate your feedback and any recommendations within the next week to help us stay on schedule and comply with the consent conditions.

AARU CEMP (See Annexure J - CTMP) MAIU CEMP (See Annexure J - CTMP)

If there is any additional information you require or if you would like to arrange a meeting to discuss further, please feel free to reach out.

Thank you for your attention, and I look forward to your response.

Kind regards,

Ignacio (Nacho) Vazquez Hume Civil Engineer | Superintendent



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Level 7, 153 Walker Street North Sydney NSW 2060

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Lake Parramatta, Parramatta Photo by our Associate | WSC Team Lead - Samantha Bennett

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## Appendix K Community Consultation Strategy and Complaints Handling Procedure



# 尜SLR

Community Consultation Strategy and Complaints Handling Procedure

Mamre Abbotts Intersection Upgrade and Aldington Abbotts Road Upgrade (Phase 1 and Phase 2)

### Land Owners Group – East

Prepared by: SLR Consulting Australia

SLR Project No.: 630.031625.00001 Client Reference No.: 0001

15 October 2024

Revision: 4.0

Making Sustainability Happen

### **Revision Record**

Revision	Date	Prepared By	Checked By	Authorised By
1.0	22 April 2024	Conor Dwyer	Esther Diffey	Esther Diffey
2.0	5 August 2024	Conor Dwyer	Esther Diffey	Esther Diffey
3.0	15 October 2024	Marco Biamonti	Esther Diffey	Esther Diffey
4.0	21 November 2024	Marco Biamonti	Esther Diffey	Esther Diffey
	Click to enter a date.			

### **Basis of Report**

This report has been prepared by SLR Consulting Australia (SLR) with all reasonable skill, care and diligence, and taking account of the timescale and resources allocated to it by agreement with Land Owners Group - East (the Client). Information reported herein is based on the interpretation of data collected, which has been accepted in good faith as being accurate and valid.

This report is for the exclusive use of the Client. No warranties or guarantees are expressed or should be inferred by any third parties. This report may not be relied upon by other parties without written consent from SLR.

SLR disclaims any responsibility to the Client and others in respect of any matters outside the agreed scope of the work.

### **Table of Contents**

Basi	s of Report	ii
Acro	nyms and Abbreviations	vi
1.0	Project Overview	7
1.1	Purpose of this document	7
1.2	Project background	7
1.2.1	Transport for NSW - Mamre Road Upgrade	8
1.3	Project objectives and benefits	8
1.4	Project scope	9
1.5	Project location	10
1.5.1	Local context	10
1.6	Project timeframes and key milestones	11
1.6.1	Construction hours	12
1.7	State Significant Development Community Consent Conditions	12
1.8	Consultation to date	17
2.0	Community Consultation	18
2.1	Approach	
2.1.1	Key community engagement objectives	19
2.1.2	IAP2 Core Values	20
2.2	Roles and responsibilities	20
2.2.1	Communications and community liaison representative	26
3.0	Engagement Methodology	28
3.1	Communication and engagement channels	
3.2	Project specific contact points	
3.3	Notification procedures	
3.3.1	Traffic management	
4.0	Stakeholders	
4.1	Key stakeholders	
4.2	Directly impacted landowners	
5.0	Potential Risks and Mitigations	35
6.0	Enquiry and Complaint Procedures	
6.1	Key messages and frequently asked questions	
6.2	Phone call and email enquiries	
6.2.1	Email	
6.2.2	Phone enquiry line	

References	46
Evaluation	46
Reporting	46
Monitoring, reporting and evaluation	44
Engagement feedback and data management	44
Media enquiries and events	43
Unreasonable complainant conduct	43
Receiving and recording complaints and enquiries	42
Complaints and enquiries handling	41
	Complaints and enquiries handling Receiving and recording complaints and enquiries Unreasonable complainant conduct Media enquiries and events Engagement feedback and data management <b>Monitoring, reporting and evaluation</b> Reporting Evaluation <b>References</b>

## **Tables in Text**

Table 1:	Relevant Conditions of Consent	12
Table 2:	Broader consultation to date	
Table 3:	Roles and responsibilities	
Table 4:	Communication Management and Mitigation Tools	
Table 5:	Notification requirements prior to construction	
Table 6:	Notification requirements during construction	33
Table 7:	Potential Risks and Mitigations	
Table 8:	Summary of Monitoring Data	

## **Figures in Text**

Figure 1. MARIU and AARU ultimate design and separable portions	9
Figure 2. MARIU and AARU project locality	10
Figure 3. Kemps Creek suburb and locality	11
Figure 4. Social Licence to Operate, adapted from Boutilier and Thomson	19
Figure 5. IAP2 Public Participation Spectrum	20
Figure 6. Interest/Influence Matrix for Stakeholder Prioritisation	34
Figure 7. Complaints and enquiries handling procedure	42
Figure 8. Receiving and recording enquiries and complaints	43

## Appendices

Appendix A	Stakeholders
Appendix B	Key Messages
Appendix C	AARU MAIU Landowner Register
Appendix D	Record of Contact Form
Appendix E	Consultation Register and Supporting Evidence

## Acronyms and Abbreviations

AARU	Adlington and Abbotts Road Upgrade (phase 1 and phase 2)
CAQMP	Construction Air Quality Management Plan
CCSCHP	Community Consultation Strategy and Complaints Handling Procedure
CEMP	Construction Environment Management Plan
CNVMP	Construction Noise and Vibration Management Plan
СТМР	Construction Traffic Management Plan
DPE	Department of Planning and Environment
DPHI	Department of Planning, Housing and Infrastructure
EIE	Explanation of Intended Effect
ER	Environmental Representative
LOG-E	Land Owners Group – East (ESR, Fife/Stockland, Frasers)
MAIU	Mamre / Abbotts Road Intersection Upgrade
MRP	Mamre Road Precinct
MRU	Mamre Road Upgrade
SSD	State Significant Development
TfNSW	Transport for New South Wales
The Project	Mamre / Abbotts Road Intersection Upgrade and Aldington and Abbotts Road Upgrade
VPA	Voluntary Planning Agreement
WAD	Works Authorisation Deed
WSA	Western Sydney Airport
WSGA	Western Sydney Growth Area

### 1.0 **Project Overview**

### 1.1 Purpose of this document

SLR Consulting Australia has been engaged by Land Owners Group – East (LOG-E), to prepare a Community Consultation Strategy and Complaints Handling Procedure (CCSCHP) to support a Construction Environment Management Plan (CEMP), for the construction of Mamre Abbotts Road Intersection Upgrade (MAIU) and Aldington Abbotts Road Upgrade (AARU) (Phase 1 and Phase 2) (the Project).

This CCSCHP applies to the works and operations undertaken by LOG-E and their engaged contractors and provides the following:

- Identification of stakeholders to be consulted during the CCSCHP implementation including directly and indirectly affected community, key stakeholders, and relevant agencies/organisations.
- Engagement tools and activities to support the construction program, including notification timeframes to disseminate project updates to the community and key stakeholders and provide opportunities for enquiries and feedback.
- Enquiry and complaint management protocols.
- Monitoring, reporting and feedback mechanisms.

### 1.2 **Project background**

The Mamre Road Precinct (MRP) is located within the Western Sydney Employment Area, where 850 hectares of rural land has been rezoned for industrial development and use. This rezoning provides opportunities for immense employment and economic growth in the area, including the potential for around 5,200 construction jobs and 17,000 ongoing jobs when fully developed and operational.

Located near the future Western Sydney Airport (WSA) and major road networks, the MRP will benefit from significant government and private infrastructure investment enabling it to become the most connected industrial precinct in Australia.

Mamre Road is a key transport corridor passing through the Western Sydney Growth Area (WSGA) and provides connections to the Mamre Road Precinct via Abbotts Road and Aldington Road, Kemps Creek.

Construction is currently underway on several industrial and logistic estates within the MRP, and the Project which includes road widening, upgrade and intersection works is required to support the overall planned industrial redevelopment, projected traffic growth in the area and typical Distributor Road Requirements.

Developments within the MRP include:

- Frasers/Barings: The Yards
- Mirvac: Aspect Industrial Estate
- ESR: Westlink Industry Park
- Frasers: The Edge Estate
- Fife/Stockland: 200 Aldington Road, 90 Aldington Road and 270 Aldington Road.
- Barings: Access Logistics Park



- GPT: Yiribana Estate
- Dexus: Vescent
- Icon Oceana: Westgate
- Gibb Group: 1-51 Aldington Road

It is anticipated more than 50% of these estates will be operational by 2026. Three developments who have significant land holdings (representing approximately 40-50% of the developable land within the MRP) will utilise the Mamre Road / Abbotts Road intersection to access Abbotts and Aldington Roads. These landowners make up the LOG-E and include ESR, Frasers and Fife/Stockland. Dexus, Icon and Gibb Group will also access their developments off Aldington Road through MAIU. All other developments will utilise alternate intersections along Mamre Road.

The Project is part of two Significant State Development (SSD) applications, including SSD-9138102 and SSD-10479 and a condition of the LOG-E subdivision development consent was to upgrade the external roads which will be delivered through a joint Voluntary Planning Agreement (VPA) between LOG-E and Penrith City Council (Council) for Aldington Road and Abbotts Road Upgrade (AARU) (Phase 1 and Phase 2) and Department of Planning and Environment (DPE) for the Mamre Road / Abbotts Road intersection upgrade (MAIU).

### 1.2.1 Transport for NSW - Mamre Road Upgrade

Transport for NSW (TfNSW) are undertaking a greater project, called the Mamre Road Upgrade (MRU) which extends from the M4 Motorway, St Claire to Kerrs Road, Kemps Creek. The project is being delivered by TfNSW to meet the future transport demand associated with the Western Sydney Priority Growth Area. The NSW Government is working towards completing the concept design and review of environmental factors (REF) for the MRU from Erskine Park Road, Erskine Park to Kerrs Road, Kemps Creek.

To deliver the Project, LOG-E have entered a Works Authorisation Deed (WAD) with TfNSW to construct the MAIU and to ensure the design is coordinated to the MRU, TfNSW have advised the scope of the MAIU to reduce the risk of abortive works.

The scope of MRU is limited to the constraints of road corridor works. There will be no works on private land.

### **1.3 Project objectives and benefits**

The objectives of the Project are to:

- Meet future transport demand associated with the WSGA and MRP.
- Reduce future road transport costs by improving corridor performance.
- Improving liveability and sustainability and support economic growth.
- Deliver good urban design outcomes.
- Minimise the impact of the Project on the environmental and community.

The benefits of the Project include:

- Improved pedestrian connectivity and cycling environment.
- Supports industrial redevelopment through meeting Distributor Road Requirements.
- Improved road safety, efficiency, and capacity.

- Road widening to two lanes in both directions along Mamre Road with provisions to six lanes in the future.
- Support the development of the MRP and WSGA.

### 1.4 **Project scope**

The Project is being delivered as three separable portions, as shown in **Figure 1** and includes:

- Unavoidable physical impacts (batters) to private lots to the West of Mamre Road, East of Mamre, South and North of Abbotts Road and West and East of Adlington Road.
- Bulk earthworks and site preparation works including vegetation clearing.
- Road widening works to two lanes along Mamre Road, with provisions to six lanes in the future.
- Upgrades to the existing intersection of Abbotts Road and Mamre Road, with new turning lanes.
- Upgrades to the existing intersection of Abbotts Road and Aldington Road to achieve a signalised intersection with new turning lanes and slip lanes.
- Three new signalised intersections on Aldington Road to create new local road connections for future development.



Figure 1. MARIU and AARU ultimate design and separable portions

### 1.5 **Project location**

Mamre / Abbotts Road Intersection and Aldington and Abbotts Roads, service the MRP, located in Kemps Creek, NSW within Penrith City Council, and the Western Sydney Employment Area (WSEA). Land surrounding the Project and MRP is generally rural in nature comprising a variety of rural dwellings, rural land, and scattered vegetation. An existing residential community is located to the east and community aged care and education facilities located to the northwest (refer to **Figure 2**).



### Figure 2. MARIU and AARU project locality

Construction work fronts for this Project will be located in, but not limited to:

- Roads and easements including state-controlled roads
- Footpaths and verges.

Two construction site offices will service the project and be located along Abbotts Road and Northern Aldington Road.

### 1.5.1 Local context

The Project is located within one Australian Bureau of Statistics (ABS) geographical boundary – Kemps Creek (**Figure 3**), with Luddenham to the west, Orchard Hills and Erskine Park to the north and Mount Vernon and Horsley Park to the East. The ABS


community profile data below has been used to inform the communications methodology, with appropriate media and language used to reflect the statistical data.

- Kemps Creek has a population of 2,121 accommodated in 681 dwellings. The median age is 44 compared to a state median of 39. The top ancestry response is Italian, followed by Australian, English, Maltese then Lebanese, with 49.6% of households speaking non-English language at home. Languages other than English spoken at home include Italian (8.6%), Arabic (7.6%), Cantonese (3.9%), Assyrian Neo- Aramaic (3.2%) and Maltese (2.1%).
- 15.2% of the Kemps Creek population completed Year 12 compared to 14.5% for the State, with 46.9% of the population employed full time compared to a state average of 55.2%. Managers comprised the highest percentage of employment, equating to 19.6%, with a median weekly income of \$633, compared to \$813 for the State.
- The top methods of travel to work include car as driver (39.1%), walk only (4.2%) and car as passenger (4.0%).



Figure 3. Kemps Creek suburb and locality

# 1.6 Project timeframes and key milestones

Construction is anticipated to commence in September 2024 and will take up to 24 months to complete, weather and site conditions permitting.

Key project milestones include:



## **1.6.1** Construction hours

Construction activities, including the delivery of materials to and from site, will mostly take place during the day between 7.00am and 6.00pm, Monday to Friday and 8.00am and 1.00pm on Saturdays.

The Construction Noise and Vibration Management Plan (CNVMP) and the Out of Hours Works Protocol will be adhered to during these activities. Additionally, specific reference is made to Conditions B47 and B48 as outlined in Table 1, to ensure compliance with all relevant requirements.

Up to 20 out-of-hours work shifts are required, including night works and Sunday works to facilitate the following construction activities which require lane closures and speed reductions. In accordance with Conditions of Consent (D30 and D31), these activities include for D30:

- Works that are inaudible at the nearest sensitive receivers.
- Works agreed to in writing by the Planning Secretary.
- for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons;

and for D31:

- Where it is required to prevent loss of life, property damage, or environmental harm.
- Installation of drainage infrastructure.
- Asphalting works.
- Other work required to be completed at night for safety reasons, as detailed in an approved CTMP.

# 1.7 State Significant Development Community Consent Conditions

The method, triggers, timing of consultation, notification and complaints, and queries handling required during the development and arising from the requirements of the relevant SSD-9138102 and SSD-10479 consent conditions are outlined in **Table 1**.

#### Table 1: Relevant Conditions of Consent

Condition #	Condition Detail	Reference		
	SSD-9138102			
A35	The Applicant must engage an Environmental Representative (ER) to oversee construction of the development.	CCSCHP (This report)		
	Unless otherwise agreed to by the Planning Secretary, construction of the development must not commence until an ER has been approved by the Planning Secretary and engaged by the Applicant. The approved ER must:			
	(a) be a suitably qualified and experienced person who was not involved in the preparation of the EIS, RTS, ADR, and any additional information for the development and is independent from the design and construction personnel for the development;			

(b) receive and respond to communication from the Planning Secretary in relation to the environmental performance of the development;
(c) consider and inform the Planning Secretary on matters specified in the terms of this consent;
(d) consider and recommend to the Applicant any improvements that may be made to work practices to avoid or
minimise adverse impact to the environment and to the community;
(e) review the CEMP required in Condition C2 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this consent and if so:
<ul> <li>(i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or</li> </ul>
(ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary/Department for information or are not required to be submitted to the Planning Secretary/Department);
(f) regularly monitor the implementation of the CEMP to ensure implementation is being carried out in accordance with the document and the terms of this consent;
g) as may be requested by the Planning Secretary, help plan, attend or undertake audits of the development commissioned by the Department including scoping audits, programming audits, briefings, and site visits;
<ul> <li>(h) as may be requested by the Planning Secretary, assist the Department in the resolution of community complaints;</li> </ul>
(i) provide advice to the Applicant on the management and coordination of construction works on the site with adjoining sites in the Mamre Road Precinct in relation to construction traffic management, earthworks and sediment control and noise;
(j) attend the Mamre Road Precinct Working Group (see Condition A37) in a consultative role in relation to the environmental performance of the development: and

v.0	/
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	(k) prepare and submit to the Planning Secretary and other relevant regulatory agencies, for information, an Environmental Representative Quarterly Report providing the information set out in the Environmental Representative Protocol under the heading 'Environmental Representative Quarterly Reports'. The Environmental Representative Quarterly Report must be submitted within seven calendar days following the end of each quarter for the duration of the ER's engagement for the development, or as otherwise agreed with the Planning Secretary.	
A36	The Applicant must provide the ER with all documentation requested by the ER in order for the ER to perform their functions specified in condition A35 (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 Applicant of whether proposed work is consistent with the consent (which must be provided to the ER before the commencement of the subject work).	
B47	The Applicant must comply with the hours detailed in Table 2, unless otherwise agreed in writing by the Planning Secretary.	CCSCHP (This report)
	Earthworks and construction Monday – Friday 7 am to 6 pm	Section
Saturday 8 am to 1 pm		1.6.1
	Operation Monday – Sunday 24 hours	
B48	Works outside of the hours identified in condition B47 may be undertaken in the following circumstances:	CCSCHP (This
	(a) works that are inaudible at the nearest sensitive receivers;	Section 3.3
	(b) works agreed to in writing by the Planning Secretary;	
	(c) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or	
	(d) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.	
D22	The Applicant must prepare a Community Consultation Plan for the External Road Works to the satisfaction of the Planning Secretary. The Plan must:	CCSCHP (This report)
	<ul> <li>(a) be approved by the Planning Secretary prior to the commencement of the External Road Works</li> </ul>	

	(b) be implemented for the duration of the External Road Works.	Section 3.3	
	(c) Assign a central contact person to keep the community regularly informed throughout the works	Section 3.2 Section 3.3 Additional	
	(d) detail the mechanisms for regularly consulting with the nearest sensitive receivers and wider residential communities, to keep them informed about:		
	<ul><li>(i) upcoming works, duration and any night-time or out of hours works</li></ul>	information provided in the CNVMP,	
	(ii) changes to property access and details of traffic disruptions		
	(iii) schedule for high noise generating works and vibration intensive activities, including details of the specific mitigation measures that would be implemented in accordance with the construction noise and vibration management plan approved under Condition D25	CTMP, CAQMP	
	(iv) procedures to minimise dust impacts including details of the controls that would be implemented in accordance with the air quality management plan approved under Condition D25		
	<ul><li>(v) relocation of services including utilities and drainage and;</li></ul>		
	(vi) details of environmental monitoring results.	Section	
	<ul> <li>(e) include contact details for key project personnel, relevant regulatory authorities and key community stakeholders</li> </ul>	Appendix A	
	<ul> <li>(f) include a complaints procedure for recording, responding to and managing complaints, including:</li> </ul>	Section 6.2,	
	<ul><li>(i) website, email, toll-free telephone number and postal address for receiving complaints</li></ul>	Section 6.0, Appendix	
	<ul> <li>(ii) advertising the contact details for complaints prior to and during the works through on-site signage</li> </ul>	C, Section 6.3.2	
	(iii) complaints register to record the date, time and nature of the complaint, details of the complainant and any actions taken to address the complaint		
	(iv) procedures to resolve any disputes that may arise during the course of the External Road Works.		
C17	At least 48 hours before the commencement of construction of the development and for the life of the development, the Applicant must:	CCSCHP (This report)	

	(a) make the following information and documents (as they are obtained or approved) publicly available on its website:	Project Website (Section
	(i) the documents referred to in condition A2 of this consent;	3.2)
	<ul><li>(ii) all current statutory approvals for the development;</li></ul>	
	(iii) all approved strategies, plans and programs required under the conditions of this consent;	
	<ul> <li>(iv) regular reporting on the environmental performance of the development in accordance with the</li> </ul>	
	reporting requirements in any plans or programs approved under the conditions of this consent;	
	<ul> <li>(v) a comprehensive summary of the monitoring results of the development, reported in accordance with</li> </ul>	
	the specifications in any conditions of this consent, or any approved plans and programs;	
	<ul><li>(vi) a summary of the current stage and progress of the development;</li></ul>	
	(vii) contact details to enquire about the development or to make a complaint;	
	(viii) a complaints register, updated monthly;	
	(ix) the Compliance Report of the development;	
	(x) any other matter required by the Planning Secretary; and	
	(b) keep such information up to date, to the satisfaction of the Planning Secretary.	
B1	Construction Traffic Management Plan as a part of the	Refer to
	(g) if necessary, detail procedures for notifying residents	Sections 3, 5. 6 and 7
	and the community (including local schools), of any potential	Additional
		information is provided in the CTMP
B50	Construction Noise and Vibration Management Plan (CNVMP) as part of the CEMP must:	Refer to
	(e) include strategies that have been developed with the	5, 6 and 7
	(f) include a complaints management system that would be implemented for the duration of the development.	Additional information is provided in the

SSD-10479			
E2	As part of the CEMP required under condition E2 of this consent, the Applicant must include the following:		
	(i) Community Consultation and Complaints Handling.		
D1	Construction Traffic Management Plan as a part of the CEMP must: (g) if necessary, detail procedures for notifying residents and the community (including local schools), of any potential disruptions to routes.	Refer to Sections 3, 5, 6 and 7 Additional information is provided in the	
D51	Construction Noise and Vibration Management Plan (CNVMP) as part of the CEMP must: (d) include strategies that have been developed with the community for managing high noise generating works; and (e) describe the community consultation undertaken to develop the strategies in condition D51(d).	Refer to Sections 3, 5, 6 and 7 Additional information is provided in the CNVMP	

# 1.8 Consultation to date

Key stakeholders and the local community have been involved in consultation activities relating to the MPR since 2009 (refer to **Table 2**).

To date, each party within LOG-E have also been involved in ongoing consultation with government agencies, include DPHI, Penrith City Council, Sydney Water and Transport for NSW on the Project and MRP developments. Consultation has also been undertaken with adjoining landowners and the community and intermittent meetings currently take place with Transport for NSW and Council on the road upgrade works.

With this, the community and directly impacted landowners are likely to have a high-level of interest and/or impact prior to and during the Project's construction.

#### Table 2: Broader consultation to date

Year	Consultation
2009	The Department of Planning, Housing and Infrastructure (DPHI) undertook extensive engagement with stakeholders and community for the amendments to State Environmental Planning Policy (Western Sydney Employment Area) (WSEA SEPP) to rezone the MRP primarily for industrial purposes.
2017	A strategic design and preferred option for upgrading Mamre Road between the M4 Motorway, St Clair, and Kerrs Road, Kemps Creek was displayed for community comment by TfNSW. The selection process was used to determine the preferred option and all feedback received was responded to by TfNSW in 2019.
2019	The MPR draft rezoning package was exhibited by DPIE in late 2019. Public notices were placed in local newspapers and the Department notified key

	stakeholders and landowners within and adjoining the precinct in writing. Two information sessions were also held, and more than 150 landowners and community members attended. A total of 88 submissions were received, with submissions requesting the confirmation on the proposed zoning, land acquisition requirements and timing for the Mamre Road upgrade. Submissions also identified that the upgrade should be prioritised.
2022 2023	In August 2022, AT&L distributed a letter to landowners advising of upcoming investigative works to inform the MAIU and AARU design. Additional engagement has been completed by LOG-E during this time with directly impacted private property owners relating to consent, design, impact and approvals.
2024	In early 2024, the DPHI placed an Explanation of Intended Effect (EIE) document on public exhibition. The EIE proposed changes to the State Environmental Planning Policy (Industry and Employment) 2021 (Industry and Employment SEPP) to allow the upgrade works to Abbotts Road and Aldington Road. Several landowners received a letter during this time to notify of the public exhibition and intent to partially acquire their private land to accommodate the road widening works. Feedback from the community and stakeholders will be detailed in the DPHI finalisation report.

# 2.0 Community Consultation

All community engagement activities prior to and during construction of the Project will be undertaken by LOG-E representatives and their engaged contractors on behalf of LOG-E.

# 2.1 Approach

This CCSCHP has been prepared to include national and international best practice principles and guidelines, including the following:

- International Association for Public Participation (IAP2)
- AA1000SES: International standard for stakeholder engagement

In addition, ensuring a Social Licence to Operate is attained and retained throughout the Project's lifecycle is key to the Projects ongoing success. LOG-E will have regard to the community and key stakeholders who may be directly impacted by the Project, and will seek to identify the level of, and ways of, mitigating any impacts and implement agreed mitigation strategies.



#### Figure 4. Social Licence to Operate, adapted from Boutilier and Thomson

Additionally, LOG-E is committed to delivering community and stakeholder engagement outcomes utilising the following principles at the core of their approach:

- **Clarity** Communication and engagement will be delivered in a clear and easy to understand manner to ensure the project and all associated works are fully understood by the community and stakeholders.
- **Proactivity** Consultation and notice shall be given prior to the commencement of works or the undertaking of potentially impactful activities.
- **Transparency** Communication and engagement will be undertaken in an open and transparent fashion, with information shared between the community and the project team.
- Accessibility Information relating to the project will be accessible via a broad range of mediums and will be made readily available to the community and stakeholders. Several avenues of contact shall be provided for the purposes of enquiry or complaint.

In their communications and consultation with the community and key stakeholders, LOG-E and their representatives will always comply with the requirements of the *Privacy and Personal Information Protection Act 1998 (NSW)* and the *Privacy Act 1988 (Cth)*.

#### 2.1.1 Key community engagement objectives

The key objectives of this CCSCHP are to:

- reduce construction fatigue and streamline community consultation activities
- keep the local community and key stakeholders informed of the commencement and progress of works relating to the Project
- adopt a 'no surprises' approach and educate the community on works, impacts and mitigation methods and benefits
- ensure enquires and complaints received from the community and/or key stakeholders for the duration of the project are addressed and responded to in a timely and effective manner



- inform nearby sensitive receivers in advance of potential disturbances and events likely to cause impact
- provide an open communications channel to allow ongoing, collaborative engagement
- seek opportunities for improvement throughout the Project
- assist all site staff and contractors to be involved in positive interactions with the community, where required, and maintain LOG-E reputation.

## 2.1.2 IAP2 Core Values

The proposed engagement methodology will follow the principles and values outlined in the International Association of Public Participation's (IAP2) Quality Assurance Standard. These high-level frameworks and standards outline best-practice expectations of principle, process, and value and provide a consistent model for design and delivery of engagement. The proposed level of engagement for the Project will be to *inform* and *consult* as per the IAP2 Spectrum in **Figure 5**.

#### Figure 5. IAP2 Public Participation Spectrum



# 2.2 Roles and responsibilities

Roles and responsibilities are key in managing proactive and reactive situations. Key members of the project team will be involved in identifying, acknowledging, managing, and responding to key issues, incidents and potential impacts and opportunities. **Table 3,4,5** provides and overview of key project roles and responsibilities for the different project phases:

Table 3: Roles and responsibilities for MAI
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Role	Contact details	Responsibilities
Communications and Community Liaison Representative	See section 3.2	Outlined in section 2.2.1 below.
Project Manager	Gerard Noone Gerard.noone@robsoncivil.com.au 0439 246 804 (100% on Project)	Oversee all aspects of the project, ensuring it stays on time and within budget.

		Coordinate between various project teams, including design, construction, and community relations. Ensure project objectives, scope, and deliverables are met according to specifications.
		Manage project risks, including technical, financial, and operational risks.
		Ensure compliance with contractual obligations, safety, and environmental regulations.
Project Engineer	Jarrod Griffith Jarrod.griffith@robsoncivil.com.au 0478 557 225 (100% on Project)	Manage and oversee road design plans, ensuring they meet project specifications, standards, and safety requirements.
		Coordinate with design teams, contractors, and regulatory bodies to align all project activities and resolve technical challenges.
		Monitor project timelines, budgets, and deliverables to ensure the project stays on track and within scope.
		Conduct site visits and inspections to ensure quality control and compliance with safety and environmental standards.
		Prepare and present project reports, including updates on progress, risks, and any required adjustments to stakeholders.

Site Engineer	Mitch Robinson@robsoncivil.com.au 0418 874 187 (100% on Project)	Supervise on-site construction activities to ensure compliance with design specifications. Monitor the progress of the work and report on any delays or issues encountered. Coordinate with contractors, suppliers, and other technical teams on site. Conduct quality control checks and ensure construction meets required standards. Ensure all site work adheres to safety regulations and environmental quidelines.
Safety Co-ordinator	Derek Doohan <u>Derek.doohan@robsoncivil.com.au</u> 0420 345 527 (70% on Project)	Develop and enforce safety management plans for the project. Ensure compliance with safety regulations on- site. Conduct regular safety audits to identify potential risks. Investigate incidents and accidents, reporting findings and implementing corrective actions
Environmental Co- ordinator	Peter LeRoy Peter.leroy@robsoncivil.com.au 0497 142 591 (50% on Project)	Develop and enforce environmental management plans for the project. Ensure compliance with environmental protection

standards on-site.

monitoring to identify potential risks.

Conduct regular environmental

		Work closely with the Independent Environmental Representative to address any environmental issues.
Independent Environmental Representative	Carl Vincent, 0424203046 Richard Peterson, 0429227775	Monitor and audit the project's environmental compliance independently from the project team.
		Ensure the project adheres to environmental regulations and any specific environmental conditions.
		Report any non- compliance or environmental risks to regulatory bodies as required.
		Liaise with the Safety & Environmental Coordinator to provide advice on managing environmental impacts.
		Review and approve environmental management plans and other related documentation.

## Table 4: Roles and responsibilities AARU phase 1:

Role	Contact details	Responsibilities
Communications and Community Liaison Representative	To be determined and will be put out for tender in future.	
Project Manager	Gerard Noone Gerard.noone@robsoncivil.com.au 0439 246 804 (100% on Project)	Oversee all aspects of the project, ensuring it stays on time and within budget. Coordinate between various project teams, including design,



		construction, and community relations.
		Ensure project objectives, scope, and deliverables are met according to specifications.
		Manage project risks, including technical, financial, and operational risks.
		Ensure compliance with contractual obligations, safety, and environmental regulations.
Project Engineer	Jarrod Griffith Jarrod.griffith@robsoncivil.com.au 0478 557 225 (100% on Project)	Manage and oversee road design plans, ensuring they meet project specifications, standards, and safety requirements.
		Coordinate with design teams, contractors, and regulatory bodies to align all project activities and resolve technical challenges.
		Monitor project timelines, budgets, and deliverables to ensure the project stays on track and within scope.
		Conduct site visits and inspections to ensure quality control and compliance with safety and environmental standards.
		Prepare and present project reports, including updates on progress, risks, and any required adjustments to stakeholders.
Site Engineer	Mitch Robinson Mitch.robinson@robsoncivil.com.au	Supervise on-site construction activities to



	0418 874 187	ensure compliance with design specifications.
	(100% on Project)	Monitor the progress of the work and report on any delays or issues encountered.
		Coordinate with contractors, suppliers, and other technical teams on site.
		Conduct quality control checks and ensure construction meets required standards.
		Ensure all site work adheres to safety regulations and environmental guidelines.
Safety Co-ordinator	Derek Doohan Derek.doohan@robsoncivil.com.au	Develop and enforce safety management plans for the project.
	0420 345 527 (70% on Project)	Ensure compliance with safety regulations on- site.
		Conduct regular safety audits to identify potential risks.
		Investigate incidents and accidents, reporting findings and implementing corrective actions.
Environmental Co-	Peter LeRoy	Develop and enforce
ordinator	Peter.leroy@robsoncivil.com.au	environmental management plans for
	0497 142 591	the project.
	(50% on Project)	Ensure compliance with environmental protection standards on-site.
		Conduct regular environmental monitoring to identify potential risks.
		Work closely with the Independent Environmental



		Representative to address any environmental issues.
Independent Environmental Representative	Carl Vincent, 0424203046 Richard Peterson - 0429227775	Monitor and audit the project's environmental compliance independently from the project team.
		Ensure the project adheres to environmental regulations and any specific environmental conditions.
		Report any non- compliance or environmental risks to regulatory bodies as required.
		Liaise with the Safety & Environmental Coordinator to provide advice on managing environmental impacts.
		Review and approve environmental management plans and other related documentation.

#### Table 5: Roles and responsibilities for AARU phase 2:

Role	Contact details	Responsibilities
Communications and Community Liaison Representative	To be determined and will be put out for tender in future.	
Project Manager	To be determined and will be put out for tender in future.	
Project Site Engineer	To be determined and will be put out for tender in future.	
Safety & Environmental Co- ordinator	To be determined and will be put out for tender in future.	

Independent Environmental Representative	To be determined and will be put out	
•	for tender in future.	

#### 2.2.1 Communications and community liaison representative

The Communications and Community Liaison Representative (CCLR) will act as a first point of contact for community members and stakeholders should they have an enquiry or complaint specific to the Project. A project phone number and project reference number will be provided through all collateral to community members to facilitate the ability to submit an enquiry or complaint relating to the Project.

Calls during working hours will be received by the CCLR, calls outside of working hours (6pm – 7am) and on weekends will be recorded via voicemail for action the next business day. The CCLR will record, follow up and respond to enquiries and complaints in accordance with the CCSCHP.

The CCLR will be available for contact by landowners and the community at all reasonable times to answer any questions and address any concerns relating to the project. The CCLR will have up-to-date information on:

- emerging stakeholders
- planned construction activities
- planned traffic arrangements, including any temporary traffic switches
- current landowner discussions with members of staff
- planned community and stakeholder consultation
- complaints or enquiries received
- duties and accountabilities of staff
- commitments to stakeholders made by LOG-E.

The CCLR will be responsible for recording, actioning and providing response to comments, queries or complaints received with relation to the construction of the project and will maintain the Consultation Register in accordance with **Section 6 and Section 7** of this strategy.

# 3.0 Engagement Methodology

## 3.1 Communication and engagement channels

A range of tools and techniques will be used to inform and engage with the community and stakeholders regarding the Project. **Table 4** below provides an overview of the mechanisms to be utilised to regularly inform and consult with the local community and key stakeholders and measures to mitigate potential issues prior to and during construction.

#### Table 6: Communication Management and Mitigation Tools

Tool/ Technique	Description	Responsibility	Audience	Frequency/ timing	Specifications
Workshop	Workshop to identify opportunities to collaborate and combine community notifications and engagement activities and review complaints handling procedures.	CCLR and Project Manager	MRP Working Group and MRP Developers	Prior to and on a quarterly basis during construction.	Explore the potential to distribute joint newsletters and host collaborative community information sessions to reduce consultation fatigue.
Project Website	The project website to provide key stakeholders and the community with information and updates on project milestones and various stages of construction.	CCLR and/or Contractor	Landowners, community, website users, and stakeholders.	Continual updates based on new project information and updates.	The website to be updated with details on the timing of construction activities and expected impacts.
One-to-one Meetings	Meetings with landowners, community, and stakeholders to notify, discuss or consult on matters, or as requested. Meetings will be held face-to- face, phone or online via Microsoft Teams.	CCLR	Landowners, community, and stakeholders.	As requested, or required on an as needs basis dependant on matters to be discussed and appropriate timing of discussions.	Details and matters to be discussed to be tailored to the purpose and aims of the meeting. Record of conversation (informal) or minutes of meeting (formal) to be recorded, retained by the CCLR, and provided to all attendees

Land Owners Group – East Community Consultation Strategy and Complaints Handling S Procedure

Tool/ Technique	Description	Responsibility	Audience	Frequency/ timing	Specifications
					following the meetings. Interactions will be included in the Consultation Register and actioned as required.
Meetings	Meetings with relevant key stakeholders (agencies, MRP developers etc.) to discuss matters relevant to them, including opportunities to reduce landowners and community impact.	CCLR and/or Project Manager	Relevant key Stakeholders.	As required.	Meetings will be held as required to address matters relevant to specific agencies including the satisfaction of conditions of consent. These shall be undertaken either directly by LOG-E or facilitated by the CCLR at LOG-E's discretion.
Agency/Key Stakeholder Notification	Project notifications would be provided to specific receivers identified as having a high interest in the project.	CCLR and/or Contractor	Local Council Agencies MPR developers.	As required for the project duration.	Provision of project notification via email. Notification details to be recorded in the Consultation Register.
Project letters	Project letters will introduce the project and provide overarching project updates as required.	CCLR and/or Contractor	Landowners, community, and stakeholders.	As required for the project duration.	Project introduction and updates, including the timing of construction activities and anticipated impacts to be identified along with relevant contact details.
Project notification cards	Project notification cards will provide key information on specific upcoming works.	CCLR and/or Contractor	Landowners, community, and stakeholders.	As required for the project duration.	
Notification Letterbox Drops / Emails	Project notifications would be provided to specific receivers identified as being potentially affected by construction. This may be undertaken in tandem with door knocking.	CCLR and/or Contractor	Landowners and occupiers of the immediate area.	As required for the project duration.	Letterbox drop/email distribution details to be recorded in the Consultation Register.

Tool/ Technique	Description	Responsibility	Audience	Frequency/ timing	Specifications
Text Message and Email Alerts	Text messages and emails providing prompt updates.	CCLR and/or Contractor	Landowners and occupiers of the immediate area.	As required for the project duration.	Text Messages and email alerts will provide important information at short notice to potentially affected receivers where consent has been granted to utilise contact detail for this purpose.
Email and phone	Where agreed to by the stakeholder and contact details provided, contact will be made via email, phone and/or text message to notify or respond to query or complaint.	CCLR	The wider community and key stakeholders.	As required for the project duration.	With the stakeholder's consent, contact details will be used to provide project notifications or further contact to respond to query or complaint. Recorded contact details are to kept private and used exclusively for the purpose of consultation on the Project.
Project Site Signage	Project information details.	CCLR and/or Contractor	Visitors to the site, landowners, and community in the immediate area.	Prior to and during construction.	Contain project contact points, along with project timing and relevant project and safety information.
Project Contact Points	Phone number to be contacted should information on the project be required or complaint lodged.	CCLR	The wider community and key stakeholders.	Project duration.	Phone number and email to be included on site signage, and all project information material. Feedback provided to be incorporated into the Complaints Register and actioned as required.
Staff and Visitor Induction and Training	Project information details.	Contractor's Project Manager / Site Supervisor	Staff and visitors to the site.	Project duration.	Induction training can be used as a means to communicate community engagement and complaints handling requirements and procedures relating to this Plan.

Land Owners Group – East
<b>Community Consultation Strategy and Complaints Handling</b>
Procedure

Tool/ Technique	Description	Responsibility	Audience	Frequency/ timing	Specifications
Toolbox and Prestart Meetings	Project information details.	Site Manager and Contractor's Project Manager. CCLR to provide inputs as necessary.	Staff and visitors to the site.	Project duration.	As required, toolbox and pre start meetings can be used to ensure all staff and contractors are aware of external and internal communications procedures a current community concerns and/or issues.
Record of Contact	Recording all landowners, community, and stakeholder one-to-one conversations.	CCLR, LOG-E representatives and Contractor	Landowners, community, and stakeholders.	Project duration.	The Record of Contact form will be used to capture all face-to-face interactions and will be used to inform the consultation register.
Consultation Register	Recording community and stakeholder interactions (including notification, consultation, queries, comments, and complaints), along with associated remedial actions as required.	CCLR	The wider community and key stakeholders.	Project duration.	The register will be continually updated to record community engagement, including information provided by LOG-E representative and contractors, feedback received, and remedial action undertaken where required.

# **3.2 Project specific contact points**

The following project contact points are to be provided on all project specific collateral and communications, including site signage and notifications.

Contact	MAIU and AARU Community Consultation Liaison Representative			
Name/s	<ul> <li>The Community Consultation and Liaison Representative role will be managed by the following team:</li> <li>Esther Diffey – Technical Director +61 423 686 002</li> <li>Marco Biamonti – Senior Consultant +61 457 075 133</li> <li>Stephanie Skordas – Senior Consultant +61 434 279 633</li> </ul>			
Email	info@mamrealdingtonupgrades.com.au			
Phone	1800960071			
Website	mamrealdingtonupgrades.com			
	The website's backend will be handled by SRL and the subcontracted web developer.			
	<ul> <li>Esther Diffey – Technical Director +61 423 686 002</li> </ul>			
	<ul> <li>Marco Biamonti – Senior Consultant +61 457 075 133</li> </ul>			
	<ul> <li>Stephanie Skordas – Senior Consultant +61 434 279 633</li> </ul>			

Enquiries or complaints may also be received by a range of other channels and escalated via email, phone or in person to LOG-E including, but not limited to:

- Elected representatives.
- Penrith City Council offices and call centres.
- TfNSW offices and call centres.
- in-person during meetings or door knocks, or when a member of the public approaches the workforce directly.

All enquiries and complaints, received directly via the project specific contact points or in person, or indirectly via other channels where the complaint has been reported and/or escalated to LOG-E will be recorded in the Consultation Register (**Appendix E**).

## 3.3 Notification procedures

Notifications will be the key channel for effectively informing landowners, the community, and key stakeholders of works through the duration of the Project.

The notification requirements outlined in **Table 5** and **Table 6** will ensure all notifications are distributed by the contractor and received by the community within a suitable timeframe relevant to the impact, including all activities prior to and during construction. All notifications will be drafted by the CCLR and must be submitted to Log-E for approval at least 3 business days prior to contractor distribution.

 Table 7:
 Notification requirements prior to construction

Project activity	Notification to be provided
Commencement of construction activities	At least 4 weeks prior to commencement

Rescheduling or completion of construction activities	At least 2 weeks prior to completions and 2 business days' notice for rescheduling
Major changes to configuration of road traffic, including speed, lane closures, temporary public transport impacts etc.	At least 2 weeks
Impacts on pedestrians and/or bicyclists	At least 2 weeks
Alteration to property access arrangements	At least 2 weeks
Commencement or rescheduling of property adjustment work	At least 2 weeks
Other activities not identified above which may impact the community	At least 2 business days
Night works and out of hours works	At least 2 business days

Table 8: No	otification	requirements	during	construction
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Notification Type	Submission to LOG-E	Distribution
Out of Hours Works	Draft a notification letter at least 5 business days prior to the works being carried out	At least 2 business days prior to the works being carried out
Significant change in project schedule	Draft a notification letter at least 5 business days prior to the works being carried out	At least 2 business days prior to the works being carried out
Traffic Conditions	Draft letter at least 10 business days prior to the traffic conditions changing	At least 5 business days prior to the traffic conditions changing if deemed necessary by LOG-E
Individual private properties regarding property impacts or changes to access	Draft letter at least 4 weeks prior to the works being carried out	At least 2 weeks prior to the works being carried out of access changes
Individual businesses regarding property adjustments or changes to access	Draft letter at least 4 weeks prior to the works being carried out	At least 2 weeks prior to the works being carried out of access changes

#### 3.3.1 Traffic management

- Site specific Traffic Management Plans (TMP) will be developed for each project stage.
- LOG-E contractors are to communicate any changes to road closures, driveway impacts or detours with the CCLR at least 14 days in advance to allow for collateral preparation, communication activities and liaison with internal and external stakeholders.

• LOG-E will proactively engage with landowners and key stakeholders, including the MRPWG, Council, TfNSW and DPHI for traffic changes and/or temporary or partial road closures. Consultation will also include liaison with local emergency services if required.

# 4.0 Stakeholders

Stakeholders refer to any person or group of persons who have an interest or can affect/be affected by an issue or decision. The Project covers a diverse range of stakeholders with varying levels of interest, influence, power, or impact relative to any issue. The level of influence/interest of a stakeholder group should be a consideration in shaping their level of participation in engagement, timing of engagement and the subsequent methodology for engagement.

The interest/influence matrix shown in **Figure 6** categorises stakeholders based on their level of interest in the project, and their level of influence or power to affect the project's outcomes. The matrix supports the prioritisation of engagement efforts and the development of appropriate strategies for managing and communicating with stakeholders.



#### Figure 6. Interest/Influence Matrix for Stakeholder Prioritisation

# 4.1 Key stakeholders

The key stakeholders previously engaged and likely to require ongoing consultation, notification and or likely to raise comment or complaint during the construction of the Project include (but are not limited to):

- Penrith City Council.
- Mamre Road Precinct Working Group.
- NSW Department of Planning,
- NSW Environment and Heritage
   Group.
- Fire and Rescue NSW.
- Heritage Council of NSW.

Housing & Infrastructure (DPHI).

- NSW Department of Planning, Housing and Infrastructure (Central Western)
- Green and Resilient Places, Biodiversity Planning, Environment and Science teams).
- Freight Hub Transport for NSW
- NSW Government Water.
- NSW Department of Natural Resources Access Regulator (NRAR).
- Sydney Water.
- Western Sydney Airport Corporation.
- Airport Operator.
- Endeavour Energy.
- WaterNSW.
- Bakers Lane School

- NSW Rural Fire Service.
- Fairfield and Blacktown City Council.
- NSW Department of Primary Industries (Land and Fisheries).
- NSW Department of Primary Industries (Agricultural).
- Environmental Protection Authority (EPA).
- TransGrid.
- Deerubbin Local Aboriginal Land Council.
- Environment, Energy and Science Group (EES).
- Western Sydney Planning Partnership (WSPP).
- Directly impacted landowners and sensitive receivers.
- Surrounding local businesses and broader community.
- Media bodies.
- Other Interested Parties.

A more detailed stakeholder analysis, including their anticipated interests, level or interest/influence and required level of engagement is included in **Appendix A**.

# 4.2 Directly impacted landowners

Properties and landowners directly impacted by the project are provided in **Appendix C**. Properties highlighted in red are landowners who have either:

- Objected to the road upgrade and an interim arrangement is proposed.
- Are expected to object to the road upgrade and an interim arrangement will be required.
- Are physically impacted by the road upgrade (unavoidable) and consent is required before construction can commence.

# 5.0 Potential Risks and Mitigations

LOG-E are committed to ongoing proactive consultation with the community and stakeholders while understanding the importance of addressing potential issues and reviewing methodologies to reduce construction and operational related impacts, where possible. **Table 7** outlines project issues that are likely or known to be of interest or concern to the community and stakeholders. The table also details communications related measures and strategies that LOG-E representatives and contractors will undertake to manage and mitigate impacts.

Where an incident or non-compliance arises relating to environmental management and beyond the scope of matters relating to consultation, the Project Construction Environmental Management Plan (CEMP) provides the management and mitigation measures to address those matters.

Potential issues	Potential key impacts	Proposed mitigation strategy
Project acceptance not achieved from directly impacted landowners, stakeholders, or broader community	Needs of property owners with access/acquisition requirements are at conflict with broader project needs and priorities. Consent is not achieved from landowners. Complaints resulting in project delays, change to scope of works and negative media attention.	Provide opportunity for property owners to discuss concerns and priorities. Provide transparency/ communicate impacts, outcomes and next steps of project progression in accordance with Section 3 of this CCSCHP.
Noise, Vibration, and Air Quality	High traffic volumes due the amount on concurrent construction activity in the MRP. Truck, machinery, and light vehicle movements within, to and from the site, along with civil works have potential to result in negative impacts associated with noise, vibration, and dust.	Sensitive receivers and affected stakeholders will be informed prior to actions likely to generate high levels of noise or vibration in accordance with Section 3 of this CCSCHP. The CEMP, along with the supporting Construction Noise and Vibration Management Plan and Construction Air Quality Management Plan contain specific measures to manage these impacts. These management plans have been informed by commitments contained within the SSD approvals package, EPA standards and guidelines.
Construction Traffic	Additionally, construction activities will take place within the road reserve, which is expected to have a notable impact on local traffic. Further, A temporary increase in traffic movements is anticipated due to the import of materials, the transportation of construction machinery to and from the site,	All key stakeholders will be informed of changed traffic conditions via an initial project letter prior to construction and kept updated (as required). The CEMP and supporting Construction Traffic Management Plan will also identify specific mechanisms to manage and mitigate

Table 9:	Potential	Risks	and	Mitigations
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Potential issues	Potential key impacts	Proposed mitigation strategy
	and the movement of workers' light vehicles.	these impacts including the development.
Stormwater, Sediment Control, Erosion, Water Quality	High rainfall events could result in localised flooding. Construction could result in impacts to local water quality, associated with sediment laden runoff.	Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding erosion and water quality issues, with these items discussed as they arise via the construction phoneline, in accordance with Section 3 of this Strategy. The CEMP, along with the supporting Erosion and Sediment Control Plan identify specific mechanisms to manage and mitigate these impacts in accordance with the relevant Penrith City Council standards.
Waste Management	Earthworks, demolition, and construction waste present at the site during works.	The CEMP and supporting Waste Management Plan identify specific mechanisms to manage and mitigate these impacts.
Removal of Flora and Fauna	The project approval requires the removal of native and exotic flora and fauna to facilitate the development, with the associated potential for impacts on safety of immediately adjacent receivers, along with biodiversity and visual amenity.	Potentially affected receivers would be advised of works with the potential for impact via letter box drop and phone contact. (If appropriate) and with these items discussed as they arise via the Project contact points, in accordance with Section 3 of this Strategy. The CEMP, along with the supporting Flora and Fauna Management Plan identify specific mechanisms to manage and mitigate these impacts.
Visual Amenity and Privacy	Visual impacts of earthwork and construction activities, along with potential impacts on the privacy of adjacent sensitive receivers.	Potentially affected receivers would be advised of works with the potential for impact via letter box drop and phone contact.

Potential issues	Potential key impacts	Proposed mitigation strategy
		<ul> <li>(If appropriate) and with these items discussed as they arise via the Project contact points in accordance with Section 3 of this Strategy.</li> <li>The CEMP and supporting Vegetation Management Plan identifies specific mechanisms to manage and mitigate these impacts.</li> </ul>
Out of Hours Work	The identified impacts could be magnified due to the works being carried out while surrounding receivers are more likely to be home in the early morning/evening, or asleep, with correspondingly lower background noise levels.	Should out of hours work with the potential for impact be proposed the potentially affected receivers would be advised via letter box drop in accordance with Section 3 of this Strategy and in accordance with the Construction Noise and Vibration Management Plan (CNVMP).
Hazardous Goods and Contamination	There is the potential for environmental incidents relating to the hazardous goods and contamination on site during construction.	The CEMP and supporting Unexpected Contamination Procedure identify specific mechanisms to manage and mitigate these impacts.
Misinformation and Misunderstanding	Lack of project awareness within the wider community may result in complaints being raised by those unaware of the extent of the approval, with these complaints not directed through the appropriate project hotline. Unauthorised release of project information by the project team to the media, stakeholders or the community has potential to impact on project perception in the community.	This CCSCHP includes measures in Section 3 to provide regular updates in plain English, supported by imagery to stakeholders and the wider community through public and private media. The Project contact points will be provided on site signage and in all information issued.

Potential issues	Potential key impacts	Proposed mitigation strategy
Emergency Event	Unforeseen emergency with the potential to impact on the community either directly, or indirectly through out of hours activities that may generate additional traffic or noise.	This CCSCHP includes measures in Section 3 to provide updates in emergency events, with the CEMP identifying specific mechanisms to manage and mitigate these impacts from an environmental management perspective.

# 6.0 Enquiry and Complaint Procedures

LOG-E are committed to the timely and effective management of enquiries and complaints relating to the Project. The following protocols and procedures must be adhered to by all LOG-E representatives and contractors to enable the receipt, recording and resolution of enquiries and complaints in a consistent and timely manner appropriate to the issues raised.

# 6.1 Key messages and frequently asked questions

As the project progresses, project key messaging should be reviewed and updated as new information becomes available. Issues raised or enquires made, generally illustrate a need for more information on a specific topic such as the project schedule and/or anticipated construction activities including traffic management, noise, dust, or similar. Frequently asked questions can be developed to support key messaged and provide additional information. Current key messages are found in **Appendix B**.

# 6.2 Phone call, email enquiries and website

The following outlines the procedures and protocols for managing enquiries via the public email **info@mamrealdingtonupgrades.com.au** or phone line **1800 960 071**. Both of these channels will be managed by the CCLR in the first instance, with contributions from specialists or the broader team as required. These contact details will also be available on the website at **mamrealdingtonupgrades.com** 

#### 6.2.1 Email

The public enquiry email address is: info@mamrealdingtonupgrades.com.au

This account will be consistently monitored during business hours. Every email sent to this address will receive an automatic acknowledgment confirming receipt and a commitment to respond within a designated timeframe, usually between 2 to 5 business days if a reply is required. The CCLR will check the inbox daily and notify the project team of any complaints received. All responses to public emails should be issued via the project email account.

#### **Email protocols**

The following outlines the process for emails received via the public enquiry address.

- 1. Incoming emails receive automated response acknowledging receipt and committing to response within two business days (where a response if required)
- 2. Email account is checked at least three times per day (morning, midday, afternoon)
- 3. All junk and spam emails will be deleted



- 4. All new legitimate emails are opened and recorded in the consultation database
- 5. Emails not requiring a response are marked as complete (right click, follow up, green tick)



- 6. Emails requiring response that can be provided through established messaging or FAQs will be replied within 2 business days.
  - a) Ensuring that email reply is captured in the consultation database and event closed out
  - b) Marked as complete
- 7. Emails requiring additional information or response from a third party (technical specialists etc) will be marked with a red flag:
  - a) Project team member will reply to email to acknowledge receipt and provide progress update to sender
  - b) Forward email to relevant team member/specialist requesting confirmation of receipt and estimated response timeframe
  - c) Record email and assign actions in the consultation database
  - d) Compile response and reply to sender via project email account OR follow up with phone call or direct email where further discussion is required.

#### 6.2.2 Phone enquiry line

The toll-free public enquiry phone line is: **1800 960 071**, calls to this line will be managed by the CCLR. Calls not answered will be forwarded to a message bank and callers will hear a recorded messages acknowledging receipt and committing to a response time frame – typically **1 business day.** 

Callers will then be asked to record a message including any relevant information and contact details.



#### 1.1.1.1 Phone protocol

The following outlines the process for emails received via the public enquiry address.

- 1. Nominated team member to record call in consultation database
  - a) Close out entry where no response in required
- 2. Where a response is required and can be provided using approved messaging, the nominated team member will return the call using their direct line
  - a) Record enquiry and response in consultation database
- 3. Where a response requires additional information or contribution from a third party. The nominated team member will:
  - a) Forward the enquiry to the relevant team member/specialist and seek confirmation of receipt and an estimated response timeframe
  - b) Provide an update to the caller including estimated response time
  - c) Record enquiry and actions in the consultation database.

#### 6.2.3 Project website

The project website, **mamrealdingtonupgrades.com**, has been launched to keep the community informed and engaged. Access to the latest project updates, as well as project contact details, including the email address and phone number, can be accessed. This platform ensures that everyone can stay up to date with the project's progress and have a direct line of communication with the team.

#### 6.2.4 Postal address for receiving complaints

A postal address for receiving enquiries and feedback on the project can be received via the Australian postal services at Level **11**, **176 Wellington Parade**, **East Melbourne**, **Victoria 3002**. Any mail sent to this address will be responded to upon receipt, typically within 2 to 5 business days, if a reply is deemed required. The CCLR will inform the project team of any post received. All responses to public correspondence will be issued using LOG-E formatted letters.

# 6.3 Complaints and enquiries handling

Complaints and enquiries are anticipated from neighbouring landowners, local community, and key stakeholders once engagement commences and during works on site. As multiple developments and construction activities progress in the area, it is assumed the Project will receive complaints in association with other works. Key to managing community expectations will be through provision of timely project information, identification of complaint source and applying appropriate mitigations to resolve the impact (if required). Some enquiries and complaints may be one-off occurrences and others may require keeping track of multiple emails or issues related to the one stakeholder.





## 6.3.1 Receiving and recording complaints and enquiries

Where a general enquiry is received, the CCLR or responsible party will attempt to provide an immediate response, if in possession of relevant information, in person or via phone/email. Where more specific or detailed information is required, the CCLR or responsible party will liaise with the project manager or relevant project engineer/site supervisor to obtain the information required to respond to the enquiry and provide this information to the enquiring party once in hand within 24 hours.

In the event of a complaint, the CCLR or responsible party will assess whether the complaint is minor, moderate, or major and if necessary, delegate the remediation of the issue to the project manager or relevant project engineer/site supervisor for action. The CCLR or responsible party will oversee the rectification of the issue and respond to the complainant once the issue has been resolved (within 24 hours for minor complaints, 48 hours for moderate complaints and within five business days for major complaints).

Where a complaint or enquiry cannot be responded to immediately the responsible party will assess and prioritise the submission and provide the complainant or enquirer with a follow up verbal response on what action is proposed within two hours during construction works (including night and weekend works) and 24 hours at other times. Where a complaint or enquiry cannot be resolved by the initial or follow-up verbal response, a written response will be provided to the complainant or enquirer within five business days.

Where the above protocol is unsuccessful in resolving complaints, mediation may be undertaken at the discretion of LOG-E to facilitate negotiation between affected parties. This shall be performed by an independent person (mediator) appointed by LOG-E.

All general enquiries and complaints must be recorded in the complaints and enquiries database to be included in weekly and monthly reports.

## 6.3.2 Dispute resolution procedure

Where a dispute has been raised, it will be received by the Community and Client Liaison Representative (CCLR) or designated project member. Complaints will be categorised as minor, moderate, or major. Minor complaints will be resolved within 24 hours, moderate complaints within 48 hours, and major complaints within five business days.

If a complaint cannot be resolved at the initial stage or involves significant environmental concerns, it will be escalated to the Environmental Representative (ER). The ER will review the complaint, assess the environmental impact, and recommend necessary corrective actions in line with Condition A35. The ER also monitors the Construction Environmental Management Plan (CEMP) to ensure compliance.

All complaints will be logged in a database for reporting, with the ER preparing quarterly updates for the Planning Secretary, summarising complaint management and resolution.





## 6.3.3 Unreasonable complainant conduct

The NSW Ombudsman provides guidelines which define unreasonable complaint conduct as:

"...any behaviour by a current or former complainant which, because of its nature or frequency, raises substantial health, safety, resource or equity issues for the parties to a complaint."

Whilst it is not envisioned that the project will attract complainants that exhibit this behaviour, where a complainant is seen to potentially have a negative impact on the CCLR or support team's health, safety, resourcing or equity of service, LOG-E shall adhere to the procedures and practices outlined within the NSW Ombudsman's *"Managing Unreasonable Complainant Conduct Practice Manual 2nd Edition"*.

#### 6.3.4 Media enquiries and events

All LOG-E representatives and contractors working on the Project must not provide any information or comment regarding the Project to any media or political representatives. If approached or contacted, it is important to remain polite and courteous, record the person's contact details including their name and number and report the activity immediately to the project's CCLR.

# 6.4 Engagement feedback and data management

A record of contact form (**Appendix D**) and consultation register (**Appendix E**) will be used to record all interactions, noting the types of issues being raised, contact details and action required. When recording contact the following will be undertaken:

- Advise the person you will be taking notes to ensure their query can be passed on to the project team to address.
- Check with the person, that you have understood their query or comments.
- Confirm that the contact details are correct.
- The contact should be recorded as soon as possible and reported to the CCLR as soon as practical.
- Any unfavourable contact (complaints, aggression, threats) must be reported immediately to the site supervisor and CCLR to escalate.

The consultation register will be used to record, track, and manage issues and will aid in feedback of engagement outcomes to project team members and key stakeholders. The consultation register must include the following details for all complaints or enquiries received:

- Date and time of complaint or enquiry.
- Method by which the complaint or enquiry was made.
- Name, address, contact telephone number of complainant (if no such details were provided, a note to that effect).
- Nature of complaint or enquiry.
- Action taken in response including follow up contact with the complainant.
- Any monitoring to confirm that the complaint or enquiry has been satisfactorily resolved.
- If no action was taken, the reasons why no action was taken.

Complaints will be provided to the Environmental Representative (ER) daily, in accordance with Condition A36, and reported to DPHI monthly through the ER Report, in line with Condition A35.

# 7.0 Monitoring, reporting and evaluation

Monitoring, Reporting and Evaluation will be undertaken to measure the effectiveness of community consultation, stakeholder engagement and responses to complaints and enquiries. Opportunities for improvement will be sought on a continuous basis, with an annual review of the CCSCHP undertaken to formalise these incremental improvements.

The CCLR will record all external stakeholder and community interaction for the Project using a consultation database (spreadsheet or CRM platform).

It is important that this platform is updated following engagement activities to ensure interactions, feedback and outcomes can be adequately monitored and reported. This assists in maintaining the principles of transparency, accountability and responsiveness and to manage engagement and Project risk.

LOG-E will monitor the following to inform periodic evaluation of consultation:

• total number of monthly complaints

- review of number of monthly complaints relating to lack of consultation/misinformation/confusion
- review of number of monthly enquiries relating to information previously disseminated to the community through other channels
- monthly review of enquiries or complaints of a similar nature or theme indicative of underlying systematic issues with the project or communication strategy
- response timeframes, including initial acknowledgement and the response to enquiries or remediation of issue(s).

The parameters of monitoring and performance criteria are outlined in Table 8.

Monitoring Parameter	Rationale	Performance Criteria	Monitoring Frequency
Total number of complaints	The number of complaints received in total is indicative of the community's satisfaction with the project.	Performance for complaints will be based on construction activities and their relative avoidable or unavoidable impact e.g. day works, vs nights works and crew behaviour (avoidable) vs land closures (unavoidable).	Monthly
Number of complaints relating to lack of consultation/misinformation /confusion	Number of complaints relating to lack of consultation/ misinformation/ confusion is indicative of the effectiveness and clarity of communication tools utilized.	A reduction in number of complaints, baseline determined by number of complaints received in preceding month.	Monthly
Number of enquiries relating to information previously disseminated	Number of enquiries relating to information previously disseminated is indicative to the effectiveness of the delivery of information.	A reduction in number of enquiries, baseline determined by number of enquiries received in preceding month.	Monthly
Number of complaints/enquiries within defined categories based on theme or subject	A large number of complaints or enquiries relating to a single issue may be indicative of a systematic issue to be addressed as a priority.	A reduction in number of complaints, baseline determined by number of complaints received in preceding month.	Monthly
Response timeframes	Response to enquiries and complaints should be timely to ensure	Enquiries and complaints acknowledged within	Monthly

 Table 10:
 Summary of Monitoring Data

Monitoring Parameter	Rationale	Performance Criteria	Monitoring Frequency
	effective responsiveness and rectification of issues and to encourage trust within the community.	48 hours. Urgent enquiries and complaints responded to within 48 hours of receipt, non-urgent enquiries and complaints responded to within 5 days.	

# 7.1 Reporting

A monthly community and stakeholder consultation summary will be prepared by the CCLR and included in the ER report, which will be submitted to DPHI, and will cover the following:

- A summary of community consultation activities undertaken within the preceding month.
- A summary of all enquiries and complaints received within the preceding month, including details of response and/or remediation activities.

# 7.2 Evaluation

Where performance criteria are not being satisfied, review of this strategy and its implementation will be undertaken by LOG-E and the CCLR and changes to the strategy may be made to rectify the short fall. Where systematic issues are identified associated with construction activities, the project manager will be advised, and immediate rectification of the issue will be requested.

# 8.0 References

International Association for Public Participation (IAP2) 2015 *Quality Assurance Standard for Community and Stakeholder Engagement*, viewed 31 January 2024, Available: International Association for Public Participation Australasia, <u>IAP2\_Quality+Assurance+Standard.pdf</u> (iap2content.s3-ap-southeast-2.amazonaws.com)

IAP2 2014, *Public Participation Spectrum*, viewed 31 January 2024, Available: International Association for Public Participation Australasia, <u>IAP2\_Public\_Participation\_Spectrum.pdf</u>

NSW Ombudsman (2012) Managing Unreasonable Complainant Conduct Practice Manual 2nd Edition.
### Appendix A Stakeholders

### Community Consultation Strategy and Complaints Handling Procedure

Mamre Abbotts Intersection Upgrade and Aldington Abbotts Road Upgrade (Phase 1 and Phase 2)

Land Owners Group – East

SLR Project No.: 630.031625.00001

15 October 2024



## **Stakeholders Analysis**

Stakeholder Group	Organisation/ Department	Stakeholder/s	Role	Potential Interests/Concerns	Level of Interest	Level of Influence	Level of Engagement
Mamre Road Precinct Working Group	SLR Consulting	TBC	Consult and coordinate construction works within the MRP to assist with managing and mitigating potential cumulative environmental impacts.	<ul> <li>Engagement with agencies regarding the Mamre Road Precinct</li> <li>Opportunities to collate work program communications</li> <li>Cumulative impact on broader community and neighbouring landowners</li> <li>Project timing/delivery/impacts.</li> </ul>	High	High	Collaborate
Local Government, Councillors and Representatives	<ul> <li>Penrith City Council.</li> <li>Contact Information:</li> <li>Phone: (02) 4732 7777</li> <li>Email: council@penrith.city</li> <li>Website: www.penrithcity.nsw.gov.au</li> </ul>	Mayor Todd Carney and relevant Council department stakeholders	Represent local communities as elected officials and ensure local government laws and regulations are observed.	<ul> <li>Concern with Project timing/delivery</li> <li>Maintaining reputation and promoting Council</li> <li>Advocating for constituents to ensure mutually beneficial outcomes</li> <li>Precinct activation, accessibility, and connectivity</li> <li>Economic development of Western Sydney</li> <li>Keep regularly informed on project/community updates and environmental issues management</li> <li>Environmental considerations such as noise, air quality, contamination, and waste management.</li> </ul>	High	High	Consult
Government Departments, Agencies and Service Providers	<ul> <li>SW Department of Planning, Housing &amp; Infrastructure (DPHI)</li> <li>Contact Information: Phone: 1300 305 695</li> <li>Email: information@planning.nsw.gov.au</li> <li>Website: www.dpie.nsw.gov.au/home</li> <li>NSW Department of Planning and Environment (Central Western, Green and Resilient Places, Biodiversity Planning, Environment and Science teams)</li> <li>Contact: Phone: 1300 305 695</li> <li>Email: information@planning.nsw.gov.au</li> <li>Website: planning.nsw.gov.au</li> <li>Transport for NSW (Freight and Road)</li> </ul>	Key stakeholders identified within each department, agency, and service provider.	Maximise development opportunities and services to the community. Ensure the Project meets legislative and/or operative requirements and meets organisational needs.	<ul> <li>Interest in Project delivery including timing, impacts, communications, contact points etc.</li> <li>Maintenance of service connections and opportunities to upgrade service networks in concurrence with project works</li> <li>Traffic management and safety management plans</li> <li>Regulatory approvals</li> <li>potholing and service location</li> <li>Opportunities for future connections, including public transport</li> </ul>	High	High	Consult

₩SLR

Stakeholder	Organisation/	Stakeholder/s	Role	Potential Interests/Concerns
Group	Department			
	Contact:			Vision for Western Sydney
	• Phone: 13 22 13			
	Website: transport.nsw.gov.au			<ul> <li>Accessibility and connectivity during</li> </ul>
	<ul> <li>NSW Department of Natural Resources</li> </ul>			construction for pedestrians, traffic, and
	Access Regulator (NRAR)			public transport users
	Contact:			Improved congestion safety officiency
	Phone: 1800 633 362			- Improved congestion, salety, enciency,
	Email: <u>nrar.enquiries@nrar.nsw.gov.au</u>			
	vvebsite: nrar.nsw.gov.au			emergency services
		_		<ul> <li>Impact to local Fauna and Flora and</li> </ul>
	— Sydney Water			mitigations
	Contact:			Impact to the Kemps Creek community
	Phone: 13 20 92			and the community consultation strategy
	Western Sydney Airport Corporation	_		and the community consultation strategy
	Contact:			and complaints handling procedure.
	Address: Western Sydney International Airport			
	Experience Centre 100 Eaton Rd. Luddenham			
	NSW 2745			
	Phone: 1800 972 972			
	Email: info@wsaco.com.au			
	— Airport Operator			
	Contact:			
	Email: info@wsaco.com.au			
	Mailing Address: Western Sydney Airport PO			
	Box 397 Liverpool NSW 1871			
	— Endeavour Energy	_		
	Contact:			
	Email Address:			
	enquiries@endeavourenergy.com.au			
	Phone Number: 133 718			
	Postal Address: PO Box 6366 Blacktown NSW			
	2140 WaterNISW/	_		
	Contact:			
	Phone: 1300 662 077			
	Email: enquiries@waternsw.com.au Website:			
	waternsw.com.au			
	Western Sydney Planning Partnership			
	(WSPP)			
	Contact:			
	Email: engagement@ppo.nsw.gov.au Website:			
	nttps://tneparks.nsw.gov.au/wspp/	-		
	Contact:			
	Phone: 1300 081 047			
	Email: water.enguiries@dpie.nsw.gov.au			
		1	1	1

Level of Interest	Level of Influence	Level of Engagement

Stakeholder	Organisation/	Stakeholder/s	Role	Potential Interests/Concerns
Group	Department			
	Postal Address: Locked Bag 5022 Parramatta			
	NSW 2124			
	Website: water.dpie.nsw.gov.au			
	<ul> <li>NSW Environment and Heritage Group</li> </ul>			
	Contact:			
	Phone: 300 361 967 (within NSW) or (02) 9995			
	5550 (outside NSW)			
	Email: info@environment.nsw.gov.au	-		
	— Fire and Rescue NSW			
	Contact			
	Address: 70 Gloucester Street Bonnyrigg			
	Heights NSW 2177			
	Phone: (02) 9823 4844			
	— Ambulance NSW	1		
	Address: 145 Bringelly Rd, Leppington NSW			
	2179 Phone: (02) 9320 777 Email:			
	feedback@ambulance.nsw.gov.au			
	<ul> <li>Heritage Council of NSW</li> </ul>			
	Contact:			
	Phone: (02) 9873 8500			
	heritagemailbox@environment.nsw.gov.au			
	Postal Address: Locked Bag 5020 Parramatta			
	NSW 2124	-		
	— Middleton Rural Fire Brigade			
	- Contact:			
	<ul> <li>Address: Lot 1 Twenty Seventh Ave. West</li> </ul>			
	Hoxton NSW 2171			
	— Phone: (02) 8741 5555			
	— Email: info@rfs.nsw.gov.au			
	FairfieldCity Council			
	— Contact:			
	— Phone: (02) 9725 0222			
	— Email: mail@fairfieldcity.nsw.gov.au			
	Administration Centre: 86 Avoca Road,			
	Wakeley NSW 2176			
	- Postal Address: PO Box 21, Fairfield NSW			
	Plaaktown City Council	-		
	— Contact:			
	- Phone: (02) 5300 6000			
	— Fmail: council@blacktown nsw dov au			
	- Postal Address: PO Box 63. Blacktown NSW			
	2148			
	- NSW Department of Primary Industries (Land	1		
	and Fisheries)			

Level of Interest	Level of Influence	Level of Engagement

Stakeholder Group	Organisation/ Department	Stakeholder/s	Role	Potential Interests/Concerns	Level of Interest	Level of Influence	Level of Engagement
	Contact: Phone: (02) 6391 3100 Website: www.dpi.nsw.gov.au - NSW Department of Primary Industries – Agricultural Contact: Phone: (02) 6391 3100 Website: www.dpi.nsw.gov.au - Environmental Protection Authority (EPA) Contact: Phone: 131 555 (within NSW) or (02) 9995 5555 (outside NSW) Email: info@epa.nsw.gov.au Postal Address: Locked Bag 5022 Parramatta NSW 212 - TransGrid Contact: Address: 180 Thomas Street, Sydney NSW 2000 Phone: +61 2 9284 300 Email: community@transgrid.com.au - Environment, Energy and Science Group (EES) Contact: Phone: (02) 9995 5000 Email: info@environment.nsw.gov.au						
Mamre Road Precinct	<ul> <li>Frasers/Barings: The Yards</li> <li>Mirvac: Aspect Industrial Estate</li> <li>ESR: Westlink Industry Park</li> <li>Frasers: The Edge Estate</li> <li>Fife/Stockland: 200 Aldington Road</li> <li>Barings: Access Logistics Park</li> <li>GPT: Yiribana Estate</li> </ul>	Developers, tenants, and employees	Continuity of planned development and business operations	<ul> <li>Interest in Project delivery including timing, impacts, communications, contact points etc.</li> <li>Accessibility and connectivity during road upgrade works</li> <li>Proposed mitigation measures, including but not limited to dust suppression, erosion, and sediment control, working hours, revegetation etc.</li> <li>Community engagement activities and complaints handling procedure.</li> </ul>	High	Medium	Consult

20 Sep. 24 SLR Project No.: 630.031625.00001 SLR Ref No.: 630.031625.00001\_CCSCHP v.04



Stakeholder Group	Organisation/ Department	Stakeholder/s	Role	Potential Interests/Concerns	Level of Interest	Level of Influence	Level of Engagement
Directly impacted landowners requiring acquisition	<ul> <li>1016 Mamre Road</li> <li>285 Aldington Road</li> <li>287 Aldington Road</li> <li>269 Aldington Road</li> <li>253 Aldington Road</li> <li>235 Aldington Road</li> <li>219 Aldington Road</li> <li>201 Aldington Road</li> <li>199 Aldington Road</li> <li>113 Aldington Road</li> <li>155 Aldington Road</li> <li>129 Aldington Road</li> <li>113 Aldington Road</li> <li>129 Aldington Road</li> <li>2129 Aldington Road</li> <li>2129 Aldington Road</li> <li>2201 Aldington Road</li> <li>129 Aldington Road</li> <li>235 Aldington Road</li> <li>240 Aldington Road</li> <li>258 Aldington Road</li> <li>272 Aldington Road</li> <li>258 Aldington Road</li> <li>230 Aldington Road</li> <li>230 Aldington Road</li> <li>230 Aldington Road</li> <li>258 Aldington Road</li> <li>258 Clifton Road</li> <li>30 Mamre Road</li> <li>300 Mamre Road</li> <li>33 Aldington Road</li> <li>33 Aldington Road</li> <li>33 Aldington Road</li> <li>34 Aldington Road</li> <li>53 Aldington Road</li> <li>54 -72 Aldington Road</li> </ul>	Private landowner/s and/or tenants directly impacted	Represent land ownership and organisation/ community interest	<ul> <li>Property impacts, including access, resumption/acquisition and land valuation</li> <li>Interest in Project delivery including timing, impacts, communications, contact points etc.</li> <li>Project contact points</li> <li>Construction impacts including, but not limited to noise, dust, vibration, traffic changes, visual amenity, tree, and vegetation removal etc.</li> <li>Cumulative traffic impacts, during and post construction</li> <li>Proposed mitigation measures, including but not limited to dust suppression, erosion, and sediment control, working hours, revegetation etc.</li> <li>Construction fatigue and reduced acceptance of cumulative impacts.</li> </ul>	High	Medium	Consult
Heavy vehicle industry, operators, and drivers	<ul> <li>20 Aldington Road</li> <li>National Heavy Vehicle Regulator</li> <li>Contact:</li> <li>Phone: 13 NHVR (13 64 87)</li> <li>Email: info@nhvr.gov.au</li> <li>Website: www.nhvr.gov.au</li> <li>Austroads</li> <li>Road Freight NSW</li> <li>Australian Logistics Council</li> </ul>	Key stakeholders and members	Represent transport agencies and advocate for the supply chain / logistics industry and trucking operators	<ul> <li>Heavy vehicle road safety</li> <li>Design meets heavy vehicle requirements and distributor road requirements</li> <li>Interest in Project delivery, including timing and construction impacts</li> <li>Project contact points</li> </ul>	Medium	Medium	Consult

Stakeholder Group	Organisation/ Department	Stakeholder/s	Role	Potential Interests/Concerns	Level of Interest	Level of Influence	Level of Engagement
				<ul> <li>Impact on haulage route, including travel times and speed reductions</li> <li>Reduction in vehicle operating costs for</li> </ul>			
				freight.			
Traditional Owners	Deerubbin Local Aboriginal Land Council	Chair: Athol Smith Board members: - Maisie Cavanagh - Suzanne Ingram - Graham Davis- King	Ensure the preservation of Aboriginal land rights and ensure ongoing cultural connections to land and community.	<ul> <li>Cultural Heritage and areas of cultural significance including archaeological sites</li> <li>Early and ongoing engagement</li> <li>Interest in Project delivery including timing, impacts, communications, contact points etc.</li> </ul>	Medium	High	Consult
	<ul> <li>Cabrogal people of the Gandangara Nation</li> <li>Guntawang Aboriginal Women's Group</li> </ul>	Elders and Traditional Owners Founder / president: Wendy Morgan	3				
Broader Community	Businesses within the immediate project area	Businesses and developers along Mamre Road, Abbotts Road, Aldington Road, Barkers Lane	Continuity of normal business operations	<ul> <li>Interest in Project delivery including timing, impacts, communications, contact points etc.</li> <li>Access to properties and businesses is</li> </ul>	Medium	Low	Inform
	Community service providers, including education and healthcare	Mamre Anglican School Little Smarties Early Learning Centre Emmaus Catholic College Catholic Healthcare Emmaus Retirement Trinity Catholic Primary School Kemps Creek Public School	Represent community interest	<ul> <li>maintained</li> <li>Interest in project benefits</li> <li>Road design, including Mamre Abbotts interchange and cycleway / pedestrian / public transport treatments</li> <li>Concern with construction and potential impacts on business activities</li> <li>Traffic management and safety management plans</li> <li>Accessibility and connectivity.</li> </ul>			
	Local community facilities and groups	Kemps CreekSporting andBowling ClubPenrith Landcareand BushcarePenrith andHawkesburyEnvironmentalEducators					

Stakeholder Group	Organisation/ Department	Stakeholder/s	Role	Potential Interests/Concerns	Level of Interest	Level of Influence	Level of Engagement
		Kemps Creek & Surrounding Areas Community Notice Playgroup – Kemps Creek Protect Penrith Action Group	-				
Media bodies	Local and Metropolitan Newspapers/E-News, Television and Radio	Penrith Press The Western Weekender WowFM 2GLF Community Radio 9News ABC News NSW 7News SBS Australia Channel 10 News	Inform community, provide local coverage of events, entertain, and engage audiences.	<ul> <li>Newsworthy detail of project milestones and events community updates and events, potential project impacts and community support of the project.</li> </ul>	Medium	Medium	Inform

### Appendix B Key messages

### Community Consultation Strategy and Complaints Handling Procedure

Mamre Abbotts Intersection Upgrade and Aldington Abbotts Road Upgrade (Phase 1 and Phase 2)

Land Owners Group – East

SLR Project No.: 630.031625.00001

15 October 2024



### Key messages

### **Project information**

- Construction is currently underway on several industrial and logistic estates within the Mamre Road Precinct and construction activities will soon commence to upgrade the existing Aldington Road and Abbotts Road corridor as well as the Mamre Road / Abbotts Road intersection.
- Once complete, the road upgrades will improve road safety, efficiency, and capacity, enhance active and public transport connectivity, and support industrial redevelopment through the application of Distributor Road Requirements.

### LOG-E

 Three developments with significant land holdings in the Mamre Road Precinct will utilise the Mamre Road / Abbotts Road intersection to access Abbotts and Aldington Roads. These landowners make up the Land Owners Group - East and include ESR, Frasers and Fife/Stockland. All other developments will utilise alternate intersections along Mamre Road.

### Project delivery

- The project will be delivered in three consecutive stages, known as:
  - Mamre / Abbotts Road Intersection Upgrade
  - Aldington and Abbotts Road Upgrade, Phase 1
  - Aldington and Abbotts Road Upgrade, Phase 2
- Construction will commence from September 2024 and the works will be delivered by [subcontractor]. It is anticipated the project will take up to 24 months to complete, weather and site conditions permitting.
- Construction **activities** will mostly take place during the day, between 7.00am and 6.00pm, Monday to Friday and 8.00am and 1.00pm on Saturdays. In some instances, night works and out of hours works may be necessary to facilitate activities requiring road and lane closures. The community will be notified in advance of these works. There will be no work outside of these approved working hours, including Sundays or public holidays.

### **Construction impacts**

- During construction, nearby residents and business will experience an increase in vehicle movements in the area, noise and dust from heavy machinery and minor vibration and changes to traffic conditions.
- Traffic control will be in place to manage the changed traffic conditions along Mamre Road, Aldington Road and Abbotts Road, including the flow of traffic to ensure the safety of road users, community, and construction workers and to maintain local access.
- Site signage, safety fencing and barriers will be installed around all work sites. Please take care and observe all signposting, speed limits and any direction given by Traffic Controllers.

**Construction mitigations** 

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- LOG-E are committed to minimising construction impacts to the extent possible, including managing noise and dust at the source, utilising traffic control and reviewing work methods as required.

#### **Restoration activities**

- All work area's will be restored as close to original condition as possible. Additional landscaping will ensure the above ground components blend with the existing environment as much as possible.

### **Project benefits**

- Enhanced connectivity, with improved pedestrian and cycling connectivity along Mamre Road.
- Facilitating industrial growth, by meeting Distributor Road Requirements, the project supports industrial redevelopment, enhancing regional economic prospects and infrastructure.
- Improved road safety and efficiency, the Project will significantly improve road safety, efficiency, and capacity along Mamre Road, ensuring smoother traffic flow and reducing congestion.
- Future-proofing infrastructure, by road widening to two lanes in each direction, with provisions for future expansion to six lanes, anticipates and accommodates future growth and increased traffic demands.
- Provision of new local connections, through introducing three new signalised intersections on Aldington Road will create vital local road connections, facilitating future community development and enhancing accessibility.
- Supporting the development of the Western Sydney Growth Area, fostering sustainable urban expansion and enhancing regional connectivity.



# Appendix C Landholder and key stakeholder register

### Community Consultation Strategy and Complaints Handling Procedure

Mamre Abbotts Intersection Upgrade and Aldington Abbotts Road Upgrade (Phase 1 and Phase 2)

Land Owners Group - East

SLR Project No.: 630.031625.00001

15 October 2024



Land Owners Group – East Community Consultation Strategy and Complaints Handling Procedure

#### 20 Sep. 24 SLR Project No.: 630.031625.00001 SLR Ref No.: 630.031625.00001\_CCSCHP v.04

Location	Lot /DP	Address	Fronting (Phase)	Land Use	Future developer	SSD or DA #	NOTES		Current Land Owner
West Mamre Rd	Lot 10 DP812284	258 Clifton Road	MAIU	No dwelling	Sydney Water	N/A	Sydney Water to purchase in the future.	N	-
West Mamre Rd	Lot 9 DP812284	258 Clifton Road	MAIU	No dwelling	Sydney Water	N/A	Batter extends into private land. Note Sydney Water to purchase in the future.	N	-
West Mamre Rd	Lot 40 DP258414	1005-1023 Mamre Road	MAIU	Dwellings	Sydney Water	N/A	Batter extends into private land. Note Sydney Water to purchase in the future.	N	-
West Mamre Rd	Lot 39 DP258414	983 Mamre Road	MAIU	Dwellings	Sydney Water	N/A	Batter extends into private land. Note Sydney Water to purchase in the future.	N	-
West Mamre Rd	Lot 38 DP258414	967 Mamre Road	MAIU	Dwellings	Sydney Water	N/A	No physical impact. Sydney Water to purchase in the future.	N	-
East of Mamre	Lot 6 DP25002	1080-1094 Mamre Road	MAIU	Dwellings	Gibb Group	NA	No physical impact.	N	Gibb Group
East of Mamre	Lot 5 DP25002	1066 Mamre Road	MAIU	Dwellings	N\A	N/A	No physical impact.	Ν	-
East of Mamre	Lot 114 DP1296469	1050 Mamre Road	MAIU	Construction site	ESR	SSD33516329	LOG-E controlled land	N	ESR
East of Mamre	Lot 115 DP1296469	1030-1048 Mamre Road	MAIU	Construction site	ESR	SSD33516329	LOG-E controlled land	N	ESR
East of Mamre/South Abbotts	Lot 2 DP25002	1016-1028 Mamre Road	MAIU and AARU Phase 1	Dwellings	N/A	N/A	Unresponsive to all mediums of communication from developers and authorities (TfNSW, PCC and Sydney Water). Interim road width to be constructed to avoid impact/acquisition.	Y	-
East of Mamre / North Abbotts	Lot 10 DP1296455	285 Aldington Road	MAIU AARU Phase 1 AARU Phase 2	Demolished Dwelling	ESR	NA	LOG-E Controlled Land. Note, was formerly Lot 1 DP25002, but was subdivided and lot 10 portion sold to ESR.	Y	ESR
East of Mamre / North Abbotts	Lot 11 DP1296455	1 Abbotts Road	AARU Phase 1 AARU Phase 2	dwelling	N/A	NA	Not to be impacted, interim road width to be constructed to avoid impact/acquisition Note, was formerly Lot 1 DP25002, but was subdivided and lot 10 portion sold to ESR.	Y	-
East of Mamre/West Aldington	Lot 8 DP253503	269 Aldington Road	AARU Phase 2	Dwelling	N/A	N/A	Expected to consent to road upgrade and land acquisition.	Y	-
West of Aldington	Lot 9 DP253503	253-267 Aldington Road	AARU Phase 2	Dwelling	Oceania	SSD23480429	Expected to consent to road upgrade and land acquisition.	Y	Oceania
West of Aldington	Lot 10 DP253503	235-251 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552045	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 24 DP255560	219-233 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552046	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 25 DP255560	201-217 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552047	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 26 DP255560	199 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552047	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 27 DP255560	183-197 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552047	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 28 DP255560	169-181 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552047	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 33 DP258949	155-167 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	SSD17552047	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 134 DP1303991	141-153 Aldington Road	AARU Phase 2	Demolished Dwelling	Dexus	SSD32722834	Expected to consent to road upgrade and land acquisition.	Y	Dexus
West of Aldington	Lot 135 DP1303991	129-139 Aldington Road	AARU Phase 2	Demolished Dwelling	Dexus	SSD32722834	Expected to consent to road upgrade and land acquisition.	Y	Dexus
West of Aldington	Lot 136 DP1303991	113-127 Aldington Road	AARU Phase 2	Demolished Dwelling	Dexus	SSD32722834	Expected to consent to road upgrade and land acquisition.	Y	Dexus
West of Aldington	Lot 37 DP258949	99-111 Aldington Road	AARU Phase 2	Demolished Dwelling	Frasers	NA	LOG-E controlled land	Y	Frasers
West of Aldington	Lot 38 DP708347	53 Aldington Road	AARU Phase 2	Dwelling	N/A	NA	C2 land - not being developed. Interim road width to be constructed to avoid impact/acquisition.	N	-
East of Aldington	Lot 111 DP1296469	63-72 Abbotts Road	AARU Phase 1	Construction site	ESR	SSD9138102	LOG-E controlled land	N	ESR
East of Aldington	Lot 112 DP1296469	59-62 Abbotts Road	AARU Phase 1	Construction site	ESR	SSD9138102	LOG-E controlled land	N	ESR
East of Aldington	Lot 113 DP1296469	290-308 Aldington Rd	AARU Phase 1 AARU Phase 2	Construction site	ESR	SSD9138102	LOG-E controlled land	Y	ESR
East of Aldington	Lot 141 DP1033686	284-288 Aldington Road	AARU Phase 2	Dwelling	N/A	N/A	Expected to reject road upgrade and land acquisition.	Y	-

East of Aldington	Lot 142 DP1033686	282 Aldington Road	AARU Phase 2	Dwelling	N/A	NA	Expected to reject road upgrade and land acquisition.	Y	-
East of Aldington	Lot 15 DP253503	272 Aldington Road	AARU Phase 2	Dwelling	N/A	NA	Expected to reject road upgrade and land acquisition.	Y	-
East of Aldington	Lot 16 DP253503	258-270 Aldington Road	AARU Phase 2	Vacant Dwelling	SFL3		LOG-E controlled land	Y	SFL3
East of Aldington	Lot 17 DP253503	244-256 Aldington Road	AARU Phase 2	Vacant Dwelling	SFL3		LOG-E controlled land	Y	SFL3
East of Aldington	Lot 18 DP253503	230-242 Aldington Road	AARU Phase 2	Construction site	BAPS	DA17/1247	Expected to consent to road upgrade and land acquisition.	Y	BAPS
East of Aldington	Lot 200 DP1285691	106-228 Aldington Road	AARU Phase 2	Construction site	FKC	SSD10479	LOG-E controlled land	Y	FKC
East of Aldington	Lot 90 DP1289463	74-88 Aldington Road	AARU Phase 2	Construction site	FKC	SSD10479	LOG-E controlled land	Y	FKC
Rejected Road Upgrade									

LEGEND IMARE ABBOTTS INTERSECTION UPOGRADE (MAU) ILOINGTON ASSOTTS ROAD UPOPADE (AAPL) PHASE 1 ALOINGTON ASSOTTS ROAD UPGRADE (AARU) PRASE 2 LOT N IP FILMA 0011 127.3 LOT D State State Long 1.01 M 1010 4100 1.07 No. 29 2000 UEF M. DF 201040 100 10716 A STATE TLUE IL ANALING ...... OCKS VO UNION DOG INTERV UCT IN 28 2000 ALDINGTON ROAD ALDINGTON ROAD 21.1 122 UCT III. 1.04 SALESONES 126, 561 0.010

Figure 9: Land use and development Map for Mamre-Abbotts and Aldington Road Upgrades



# Appendix D Record of contact form

### Community Consultation Strategy and Complaints Handling Procedure

Mamre Abbotts Intersection Upgrade and Aldington Abbotts Road Upgrade (Phase 1 and Phase 2)

Land Owners Group – East

SLR Project No.: 630.031625.00001

15 October 2024



### **Record of Contact Form**

		CCLR	Use Only	
Project phase:		Date entered		
		in register		
Date:				
Time:				
Team member:				
Event/Enquiry type	🗆 In person	Dent Phone call (out	)	
	🗆 Media Release	☐ Advertisement		
	Letter Box Drop	🗆 Email (in)		
	🗆 Ministerial	🗆 Email (out)		
	□ Notification	Door knock		
	□ Phone call (in)	Bulk Mail out		
		☐ □Community eve	nt	
Stakeholder name:				
Organisation:				
Address:		Email		
Mobile:		Other:		
Stakeholder type			aroup:	
olanonolaei type.			. group.	
		L Elected representative		
Stakeholder issue/s:	□ Construction impact	Dust		
	🗆 Approvals	□ Vibration		
	Need for consultation	Community sa	afety	
	Property value	Erosion/sedim	nent control	
	🗆 Noise	□Other:		
Sentiment:	□Negative □N	eutral	Positive	
Stakeholder				
comments				
-				
Team response				
Action		Assigned to	Date to complete	
<u> </u>				

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### Appendix E Consultation register and supporting evidence

### Community Consultation Strategy and Complaints Handling Procedure

Mamre Abbotts Intersection Upgrade and Aldington Abbotts Road Upgrade (Phase 1 and Phase 2)

Land Owners Group – East

SLR Project No.: 630.031625.00001

20 September 2024



### **Consultation Register**

Note: this is a template of the consultation register. The actual register will be maintained by the CCLR and provided to the Environmental Representative (ER) upon request, in accordance with conditions A35 and A36.

Stakeholders	Contact Details	Notification by	Notification date

## 尜SI R

Stakeholders	Contact Details	Notification by

## **Supporting Evidence**

Supporting evidence can be found below.

### Notification date

## ₩SLR



My apologies for the delay in reviewing the CEMP. I just received the comments from our Environmental team raising no

objections to the GEMIP out noted the following.

Appendix C is the Construction Noise and Vibration Management Plans. Noise in the Mamre Road Precinct is assessed by DPHI and so therefore has not formed part of Council's review. Also, in Appendix F (UCFP) within the flow chart for unexpected contamination finds there is some missing text from a box on the lower right-hand side. The chart still makes sense; however, this missing text should be included.

Please feel free to contact me if you have any questions.



Obtener Outlook para Android Kind reporte



ATAL accepts no liability for the content of this email, or for the consequences of any actions taken based on the information wided unless that information is suborquently confirmed in writing y views to confirm presented in this email are obey those of the lastfor and do not necessarily represent those of the company. Level 7, 153 Walker Street North Sydney NSW 2060 in © From: PM Sent: Wednesday, 25 September 2024 1:51 To: Subject: RE: MAIU & AARU - CEMP Hi Thank you for the chat earlier. As discussed, I have forwarded the submitted CEMP documents to our Environmental team for their review and to provide me with feedback. I will keep you updated as soon I receive their comments. Please feel free to contact me if you have any questions. Kind Regards. senior Engineer - Major Developments Engineering Services O BOX 60, PENRITH NSW www.visitpi www.penithcity.nsw.gov.au PENRITH CITY COUNCIL C C C Colov us WEDNESDAY 2 OCTOBER PENRITH City Park, Penrith WEDNESDAY 9 OCTOBER Coachmans Park, St Marys From: Sent: Monday, September 23, 2024 8:50 AM To: subject: MAIU & AARU - CEMP EXTERNAL EMAIL: This email was received from outside the organisation. Use caution when clicking any links or opening attachments.

Hi

I am writing to seek Council's consultation on the Construction Environmental Management Plan (CEMP) for the External Road Works associated with the Mamre and Abbotts Intersection Upgrade (MAIU) and Aldington and Abbotts Road Upgrade (AARU). This is in accordance with Condition D25(a) of SSD-9138102 MOD5, which requires the CEMP to be prepared in consultation with Council prior to the commencement of the External Road Works.

To provide context, there will be three separate overarching CEMPs for the following projects:

- MAIU
- AARU Phase 1
- AARU Phase 2

All three CEMPs will utilize the same set of sub-reports, which cover the scope of these projects. This approach ensures consistency in managing traffic, environmental monitoring, and other key aspects while addressing the specific requirements of each phase.

Please find the link below to the CEMP's folders for your review, which contain the Construction Traffic Management Plan for all three projects. We would appreciate your feedback and any recommendations within the next week to help us stay on schedule and comply with the consent conditions.

AARU CEMP

(See Annexure J - CTMP) MAIU CEMP (See Annexure J - CTMP)

ARE DO AND A DATE OF A DECK

If there is any additional information you require or if you would like to arrange a meeting to discuss further, please feel free to reach out.

Thank you for your attention, and I look forward to your response.

Kind regards,





Lake Parramatta, Parramatta Photo by our Associate I WDC Team Lead - Samantha Benneti

CIVIL ENGINEERS | PROJECT MANAGERS | WATER SERVICING COORDINATORS INFRASTRUCTURE PLANNERS AND ADVISERS | CONSTRUCTION PHASE SERVICES

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Sydney I Melbourne I Brisbane www.atl.net.au

Level 7, 153 Walker Street North Sydney NSW 2060







From:	Ben Cantor <bencantor@busways.com.au></bencantor@busways.com.au>
Sent:	Tuesday, 8 October 2024 12:32 PM
То:	Ellie Bargh; Adrian Prichard
Cc:	Dave Davies; Alex Lohrisch; Alasdair.Cameron@esr.com; Ignacio (Nacho) Vazquez Hume
Subject:	Re: CEMP - Community Consultation - Busways

Hi Ellie,

This will not impact on any Busways services.

Transit Systems may be impacted and if you haven't already you will need to advise @Adrian Prichard

#### Regards,

**Ben Cantor** Supervisor, Bus Network Infrastructure | Busways Sydney

#### **Busways Penrith**

47-53 Mullins Rd Penrith NSW 2750 M 0413 816 916 | W busways.com.au

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From: Dave Davies <ddavies@busways.com.au> Sent: Tuesday, 8 October 2024 10:43 To: Ben Cantor < bencantor@busways.com.au> Subject: FW: CEMP - Community Consultation - Busways

You may not have seen this based on an incorrect email address.

Can you take a look and evaluate please.

**Dave Davies** Manager, Bus Network Infrastructure

Working Days|Tuesday, Wednesday, and Thursday

#### **Busways Group**

5 Bridge St, Pymble NSW 2073 M +61 438 537 977 | W busways.com.au

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From: Ellie Bargh < Ellie.b@atl.net.au>

Sent: Friday, October 4, 2024 9:34 AM

To: Dave Davies <<u>ddavies@busways.com.au</u>>; <u>bencontor@busways.com.au</u>

Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>> Subject: CEMP - Community Consultation - Busways

Hi Dave,

Thank you for returning my call. Attached is our Community Notification Letter, containing information on our upcoming scope of road works in Mamre/ Abbotts Rd Kemps Creek.

I believe the nearest Bus Stop is:

801 Badgerys Creek to Liverpool

Stop ID: 217813

@bencontor@busways.com.au could you kindly review this information and sign and return your acknowledgement back to me today.

If you wish to discuss the above matter further, you can also reach me directly on 0405 704 705.

Kind regards,

Ellie Bargh

Project Manager | Site Superintendent

Cordeaux Dam Photo by our Senior Project Manager - Andrew Byrne

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L7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 02 9439 1777



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-gld@atl.net.au ABN 96 130 882 405

09/09/2024

Attention to: **BAPS Shri Swaminarayan Mandir, NSW** 232 Aldington Road, Kemps Creek NSW 2178.

Dear Sir or Madam,

#### Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TRNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

In order to construct the temporary signals, some temporary roadworks works need to be completed, which requires the restriction of the 'right in' and 'right out' movements for Abbotts Road, as shown in Figure 1.

This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services North Sydney i Parramatia | Brisbane | Melbourne Anternation - Anternation -





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@sirconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
RABURANT PATEL CHARMAN RAPE SWAMINARAYAN SAUSTHA AURTRALALITI)	230-242 ALDINGTON ROAD KEMPS CREEK NSW 2178	Reports	18/9/24

Yours sincerely,

Alex Lohrisch | Project Manager

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services Norm Symmey | Famametts | Engineer | Melbourne

F:\21-843 Aldington Road Design\12.0 Construction\Construction Management\05 CEMP\Community Notification Letter\8APS Shri Page 2 Swammarayan Mandlr\8AP5 Shri Swaminarayan Mandir\_232 Aldington Rd, Kemps Creek NSW 2176.docx

### Marco Biamonti

From:	Alasdair Cameron < Alasdair.Cameron@esr.com>	
Sent:	Wednesday, 4 September 2024 2:25 PM	
То:	Alex Lohrisch; Peter Wark; Ellie Bargh	
Cc:	Richard Harris; Michaela Leerdam (Michaela.Leerdam@frasersproperty.com.au)	
Subject:	FW: Abbotts Road - Mamre Road intersection consultation.	

FYI

Alasdair Cameron | Infrastructure Consultant



ESR Australia & New Zealand Level 12, 135 King Street, Sydney 2000 | au.esr.com M +61 402 458 226 D +61 2 9506 1430 E Alasdair.Cameron@esr.com Follow us on LinkedIn

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From: Carlo Callegari <carlocallegari25@gmail.com>
Sent: Wednesday, September 4, 2024 2:19 PM
To: Alasdair Cameron <Alasdair.Cameron@esr.com>
Subject: Re: Abbotts Road - Mamre Road intersection consultation.

### [\*\*EXTERNAL EMAIL\*\*]

Hello Alistair,

Thank-you for the explanation, it is a sensible approach during the period of construction of the Mamre Road/Abbotts Road intersection and I can confirm that both Galliano and Daniella Callegari of 287 Aldington Road Kemps Creek NSW 2178 have no objections.

Indeed, it would be useful to send a formal document in the mail to local residents as an additional reminder. I will ensure that guests and visitors of our family residence at 287 Aldington Road are also aware of this requirement.

Warm regards

Carlo

On Wed, 4 Sept 2024 at 10:08, Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>> wrote:

Dear Carlo,

Thanks for the time to discuss the proposed works with your father, Galliano Callegari(landowner).

As discussed, to facilitate the construction of the proposed Mamre/AbbottsRoad intersection we will be required to limit the traffic to left in and left out movements only for a period of 6 months from the start of construction which is targeted for October this year.

This would mean that if you wished to travel north on Mamre Road the route available would be via Aldington Road and Bakers Lane.

Travelling south on Mamre road would remain unaffected.

Confirming our discussion that your father had no objection to this proposal.

If you have any questions please do not hesitate to contact me.

Alasdair Cameron | Infrastructure Consultant



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ESR is currently integrating LOGOS property, with the transition occurring over a phased period.



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Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405 www.atl.net.au

09 September 2024

Attention to: **Property Owner** 269 Aldington Road, Kemps Creek NSW 2178.

Dear Resident(s)

### Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TfNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

In order to construct the temporary signals, some temporary roadworks works need to be completed, which requires the restriction of the 'right in' and 'right out' movements for Abbotts Road, as shown in Figure 1.

This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services North Sydney | Parramatta | Brisbane | Melbourne





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
Maars Industrial Group Pty Ltd	269 Aldington Road, Kemps Creek	ter	03.10.24

Yours sincerely,

Alex Lohrisch | Project Manager

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services North Sydney | Parramatta | Brisbane | Melbourne



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Emmaus Catholic College** 87-109 Bakers Lane, Kemps Creek NSW 2178.

Dear Sir or Madam,

### Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek





#### Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
Trustees of the Roman Catholic Church for the diocese of Parramatta	87-109 Bakers Lane Kemps Creek	3	19/09/2024

Yours sincerely,

Alex Lohrisch | Project Manager

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services North Sydney | Parramatta | Brisbane | Melbourne



### FIFECAPITAL

### ABBOTTS ROAD / ALDINGTON ROAD MAMRE ROAD / ABBOTTS ROAD INTERSECTION Community Consultation and Complaints Handling Strategy

### 1. Introduction

### 1.1 Background

Stockland Fife Kemps Creek Pty Limited (SFKC) is seeking to upgrade Abbotts Road and Aldington Road, including the Mamre Road / Abbotts Road intersection, under a joint delivery with ESR and Frasers. A modification application has been prepared and is currently under assessment to pull the environmental impacts of the proposed road works into SFKC's existing consent, SSD-10479, for 200 Aldington Rd, Kemps Creek. The determination of the modification will enable issue of relevant road approvals: Works Authorisation Deed (WAD) (TfNSW) or Section 138 (Penrith City Council), which will allow SFKC and its proposed contractor to deliver the works on behalf of government to support the new warehouses in the Mamre Road Precinct.

As part of the modification's assessment, Department of Planning, Housing and Infrastructure (DPHI) requested SFKC to undertake community consultation to advise immediate landowners of the environmental impact associated with the proposed road works. SFKC with ESR undertook door knocking to affected residents on 16 May 2024. Outcomes of this engagement is contained at Section 2.2 of the draft *Community Consultation and Complaints Handling Strategy*.

SFKC recognises the engagement will be an ongoing process with residents as road works commence. Therefore, this draft *Community Consultation and Complaints Handling Strategy* has been prepared to support the project during its duration.

#### 1.2 Purpose

This draft *Community Consultation and Complaints Handling Strategy* (Engagement Strategy) outlines the following:

- Identification of consultation triggers and methods with adjacent landowners and residents, key stakeholders, relevant agencies and the wider community
- The tools and actions to be undertaken throughout the construction program for the road works to disseminate information through notification of relevant stakeholders
- Enquiry and compliant management protocol; and
- Monitoring and feedback mechanism.

The Engagement Strategy is anticipated to be a dynamic document. To be updated for variations in the construction program, methodology and feedback from residents.




#### **1.3** Community Communications and Complaints Handling Strategy Scope

The Engagement Strategy applies to Mamre Road/ Abbotts Road intersection works and Abbotts Road/Aldington Road works associated with the Proponent and their engagement contractors. This document outlines the method, triggers, and timing of consultation, notification and complaints and queries handling required in the course of construction of the road works.

#### 1.4 Project Description

Proposed Mamre Road and Abbotts Road Intersection works are described as follows:

- a. Installation of traffic signals (TCS5186) and associated road work construction to TfNSW requirements at the intersection of Mamre Rd and Abbotts Rd, Kemps Creek:
  - i. Demolition;
  - ii. Earthworks;
  - iii. Drainage;
  - iv. Utilities;
  - v. Pavement;
  - vi. Signage and Line marking;
  - vii. Concrete works (kerb, medians, and footpaths);
  - viii. Landscaping;

i.

- ix. Traffic Control Signals.
- b. Installation of traffic signals and associated concrete works, signage and line marking as per the TfNSW requirements at the following intersections:
  - Interim Intersection 1 (TCS5180) Abbotts Rd and Aldington Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
  - ii. Intersection 2 (TCS5242) Aldington Road and DCP Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
- iii. Intersection 3 (TCS5181) Aldington Road and DCP Road Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.
- iv. Interim Intersection 4 (TCS5182) Aldington Road and DCP Road, Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
  - Traffic Control Signals.

The proposed Abbotts and Aldington Roads seeks to construct new 4 lane distrubutor road:



- a. Demolition;
- b. Earthworks;
- c. Drainage;
- d. Utilities;
- e. Pavement;
- f. Signage and Line marking;
- g. Concrete works (kerb, medians, and footpaths); and
- h. Landscaping.





### Figure 1 Scope of Project Works



Source: Ethos Urban



### 2. Key Stakeholders and Potential Issues

#### 2.1 Key Stakeholders

The key stakeholders likely to require consultation, notification and or likely to raise comment or complaint in the course of the road works include (but are not limited to):

- Adjacent property owners or occupiers
- Landowners in the Mamre Road Precinct, not directly adjacent to the proposed road works
- Landowners outside of the Mamre Road Precinct, such as Mount Vernon residents
- Local Council (Penrith City Council)
- Transport for NSW
- NSW Police
- Department of Planning, Housing and Infrastructure
- Utility and Services Providers, including:
  - o TransGrid
  - o Endeavour Energy
  - Sydney Water
- Other Interested Parties

#### 2.2 Previous Consultation

The proposed road works have been documented in SFKC's development application since 2021. The proponent and their representatives have undertaken consultation as part of this DA, as well as developing the for-construction design under the WAD and Section 138 process.

In addition, SFKC and ESR recently door knocked residents as part of this modification to support the proposed road works modification on 16 May 2024. Outcomes of this consultation is outlined in **Table 1** below.

Address	Lot/DP	Road Works Impact	Consultation Outcome
54-72 Aldington Road Kemps Creek	43/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:12AM</li> <li>Vacant residential property</li> <li>Currently operating as a basil farm</li> <li>Discussed with worker the proposed road works and left contact information for further questions</li> </ul>
53 Aldington Road Kemps Creek	38/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:16AM</li> <li>No one at the property</li> <li>Identified to reattend site in the next two weeks</li> </ul>

#### Table 1 16 May 2024 Consultation Outcomes

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





269 Aldington Road	8/DP253503	•	Directly adjacent to	•	Attended site at 10:10AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Understood land is currently under
		•	In proximity to		transaction to a developer
			Mamre Road/	•	ESR and SFKC to contact developer to
			Abbotts Road		discuss proposed road works
			intersection works		
284-288 Aldington	141/DP1033686	•	Directly adjacent to	•	Attended site at 9:26AM – 9:37AM
Road Kemps Creek			proposed Aldington	•	Met with the landowner
			Road works	•	Discussed the road upgrade including
		•	In proximity to		environmental impacts e.g. noise, dust,
			Mamre Road/		etc
			Abbotts Road	•	No major issues raised
			intersection works	•	Further discussions on driveway tie-in
					under the proposed road works.
				•	Ongoing consultation identified
282 Aldington Road	142/DP1033686	•	Directly adjacent to	•	Attended site at 9:21AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Met with relative at Lot 141, refer to
		•	In proximity to		conversation
			Mamre Road/	•	Ongoing consultation identified
			Abbotts Road		
			intersection works		
287 Aldington Road	11/DP296455	•	Directly adjacent to	•	Attended site at 10:11AM – 10:30AM
Kemps Creek			proposed Abbotts	•	Met with the landowner
			and Aldington Road	•	No issues with noise
			works	•	Concern regarding retain fence on
		•	Directly adjacent to		property boundary
			proposed Mamre	•	ESR advised proposed upgrade will not
			ROAD/ ADDOTTS ROAD		touch his fence
			Intersection works	•	Ongoing consultation identified
				•	ESR to organise meeting with road
					contractor closer to date of
					construction commencement to discuss
4046 4000 14	2 (55250000				protecting his fence
1016-1028 Mamre	2/02250002	•	Directly adjacent to	•	Attended site 10:34AM
коаа кетрs Creek			proposed Abbotts	•	No one at the property
			and Algington Road	•	Identified to reattend site in the next
			WORKS		two weeks
		•	Directly adjacent to		
			proposed Mamre		
			KOad/ Appotts Koad		
			intersection works		





272 Aldington Road Kemps Creek	15/DP253503	•	Directly adjacent to proposed Aldington Road works	• • • • •	Attended site from 9:44AM-10:09AM Met with the landowner Landowner requested to send plan for road upgrade FKC to attend her site on Monday, 20 May 2024 to discuss proposed plans Wanting to coordinate driveway access Landowner concerned regarding traffic controllers and ongoing upgrades of traffic arrangements entering and exiting Abbotts Road Advised a website would be set up with a mailing list subscription Landowner concerned regarding length of time to upgrade road Requested ESR and SFKC to shut down road to accelerate road upgrade. ESR and SFKC advise this was not possible due to prohibition of using Bakers Lane for construction and
1005-1023 Mamre Road Kemps Creek	40/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	operational trattic.Attended site from 10:56AM – 11:30AMMet with the landownerConcern regarding construction trafficmanagement and stormwaterDiscuss the need to reduce the speedlimit, which ESR and SFKC advisedwould occur under the WADDiscussed the need to relocate thepower polesDiscussed the compulsory acquisition ofSydney Water and the proposedregional stormwater schemeESR and SFKC advised we could workwith the landowner on impactsassociated with the road worksDiscuss road tie into the proposed roadupgradeESR and SFKC agreed to share IPARTsubmission once completed in relationto the regional stormwater mattersESR issued plan of road works on 17May for information

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





				•	Outcomes of discussion were to have a follow up meeting with all landowners on western half of Mamre Road. Tentatively scheduled for the 27 May 2024
20 Aldington Road Kemps Creek	44/DP708347	•	Directly adjacent to proposed Aldington Road works	•••	Attended site at 9:08AM No one answered Identified to reattend site in the next two weeks
983 Mamre Road Kemps Creek	39/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Landowner attended meeting with ESR, SFKC and landowner at Lot 40, DP 258414 Refer to above consultation outcomes for further information
967-981 Mamre Road Kemps Creek	38/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•••	Unable to attend site Landowner to join drop in with residents on 27 May 2024
1066-1078 Mamre Road Kemps Creek	5/DP250002	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	Attended site at 10:45AM ESR called resident and left message on 16 May 2024 No one at property ESR discussed proposed works on 17 May 2024 via phone No major issues Site is currently under due diligence by a developer
930-966 Mamre Road Kemps Creek	51/DP259135	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended site at 10:48AM Talked to resident via intercom Did not want to discuss the proposed road works Left contact card should they have any questions

#### 2.3 Potential Issues and Strategies

SFKC is committed to ongoing, proactive consultation with the community and stakeholders while understanding the importance of addressing potential issues and minimising construction related impacts. **Table 2** outlines potential project issues that are likely or known to be of interest or concern to the community and stakeholders. The able also details the communications related measures and strategies that SFKC and its delivery partners will undertake to manage and mitigate impacts.





Where an incident or non-compliance arises relating to environmental management and beyond the scope of matters relating to consultation, the management and mitigation measures will be handled as part of the approval under the WAD and Section 138. It is noted a Construction Environmental Management Plan is a required document to be approved by the relevant roads authority under the relevant road approval process.

Potential Issue	Potential Key Impact	Mitigation Strategy
Noise and Vibration	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with noise and vibration.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of noise and vibration associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement to occur during the commencement and delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drop advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> <li>Up to date information on current works will be accessible to all stakeholders via the project webpage.</li> <li>Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification</li> </ul>

#### Table 2 Issue Identification and Mitigation





		<ul> <li>via the project webpage, mailing list and letter box drop will be undertaken.</li> <li>The CEMP, along with the supporting Construction Noise and Vibration Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.</li> </ul>
Air Quality	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with air quality.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of air quality associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drops advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> </ul>





		T	
		•	works will be accessible to all stakeholders via the project webpage. Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification via the project webpage, mailing list and letter box drop will be undertaken. The CEMP, along with the supporting Construction Air Quality Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.
Traffic	the movement of construction machinery to and from site, the closure of parts of road to support delivery of road works, change of traffic through movement within the road corridor	•	landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Notification to be circulated 4 weeks prior to any traffic changes to registered parties via the mailing list and letter box drop. VMS boards adjacent to the proposed road works to identify changes to road conditions prior to them occurring. The CEMP and Construction Traffic Management Plan identify specific
			mechanisms to manage and mitigate these impacts including Driver Code of
			Conduct, intersection arrangements such as left in, left out only.
Stormwater,	High rainfall events could result in localised	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be
Stormwater, Sediment Control.	High rainfall events could result in localised flooding.	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water





		•	The CEMP, along with the supporting Erosion and Sediment Control Plan identify specific mechanisms to manage and mitigate these impacts in accordance with the relevant Penrith City Council standards and commitments within the SSDA.
Waste Management	Earthworks and construction waste present at the site during works.	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Removal of Flora and Fauna	The removal of native and exotic flora and fauna to facilitate road works, with associated potential for impacts on safety of immediately adjacent receivers, along with biodiversity and visual amenity	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Visual Amenity and Privacy	Visual impacts of earthworks and construction activities, along with potential impacts of privacy of adjacent sensitive receivers.	•	Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Should issues arise, ESR and SFKC will work with the landowner to identify appropriate mitigation methods to assist with privacy during the road works.
Out of Hours Works	The identified impacts could be magnified due to the works being carried out while surrounding receivers are more likely to be home in the early morning/ evening, or asleep, with corresponding lower background noise levels.	•	Direct engagement with landowners directly adjacent to the road corridor to occur 4 weeks prior to nighttime noise works. Letter box drop to be undertaken for receivers within Mamre Road Precinct and the broader area. Website and VMS boards to be updated advising of the night time works. Concerns and appropriate mitigation to be adopted utilising the relevant management plan/ mitigation solution, such as acoustic.





		•	ESR and SFKC to prepare a report to DPHI advising of concern raised by landowner and mitigation adopted to minimise impact to receiver.
Aboriginal Heritage	There is a potential for encountering items of Aboriginal Heritage during excavation.	•	Monitoring of works by appropriately qualified personnel, along with the implementation of an unexpected finds protocol in consultation with Aboriginal Stakeholders and Heritage Division of the Department of Planning, Industry and Environment The CEMP identifies specific mechanisms to manage and mitigate these impacts
Misinformation and Misunderstanding	Lack of project awareness within the wider community may result in complaints being raised by those unaware of the extent of the approval, with these complaints not directed through the appropriate project hotline. Unauthorised release of project information by the project team to the media, stakeholders or the community has potential to impact on project perception in the community.	•	The engagement strategy commits to provide regular updates in plain language, supported by imagery to stakeholders and the wider community through public and private media. Contact details will be provided on the webpage, on site and all information issued. Information on project works, reporting and compliance is to be maintained and updated on the project website.
Emergency Event	Unforeseen emergency with the potential impact on the community either directly, or indirectly through out of hours activities that may generate additional traffic or noise.	•	Communication updates will be issued to all stakeholders during emergency events, with the CEMP identifying specific mechanisms to manage and mitigate these impacts from an environmental management perspective.



### 3. Communications and Community Liaison Representative

SFKC will nominate a Communications and Community Liaison Representative (the representative) who will provide the community and stakeholders with a single point of contact for all aspects of the project, responsible for receiving and disseminating information requests and complaints, along with addressing any interface issues.

The representative will be available for contact by the local residents and the community at all reasonable times to answer any questions and address any concerns relating to the project. The representative will have up-to-date information on:

- Emerging stakeholders
- Planned construction activities
- Planned traffic arrangements
- Current landowner discussions with members of staff
- Planned community and stakeholder consultation
- Complaints and enquiries received
- Duties and accountabilities of staff; and
- Commitments to stakeholders made by SFKC and the broader delivery group.

The engagement representative will be responsible for recording, actioning and provided response to comments, queries or complaints received with relation to the construction of the project and will maintain the Complaints Register.

Engagement Representative Alasdair Cameron Project Manager – Infrastructure <u>Alasdair.Cameron@esr.com</u> 0402 458 226

The representative will be supported by AT&L, which are nominated as the project manager and superintendent. Additional contacts available to be reached at are as follows:

Project Manager Alex Lohrisch AT&L <u>Alex.L@atl.net.au</u> 0415 398 014

Superintendent Gabriel Vermeesch AT&L Gabriel.V@atl.net.au





0447 285 607

Any queries and complaints directed to AT&L will be immediately passed to the Engagement Representative on behalf SFKC, ESR and Frasers for action and response.





### 4. Community and Stakeholder Engagement

#### 4.1 Objectives

The key objectives of the strategy are to:

- Keep the local community and key stakeholder informed of the progress of the road works
- Ensure that enquiries and complaints received from the community or key stakeholders are addressed and responded to in a timely and effective manner
- Inform relevant parties in advance of potential disturbances and events likely to cause impact
- Be good neighbours and members of the local community throughout the duration of the project
- Providing an open two communication channel to allow ongoing, iterative engagement; and
- Seek opportunities for improvement throughout the project.

#### 4.2 Conduct

In their communications and consultation with the community and key stakeholders, SFKC and their representatives will comply at all times with the requirements of the *Privacy and Personal Information Protection Act 1998 (NSW)* and the *Privacy Act 1988 (Cth)*.

#### 4.3 Communication, Management and Mitigation Tools

A range of tools and techniques will be used to inform and engage with the community and stakeholders regarding the project. **Table 3** below provides an overview of the mechanisms to be utilised to notify and consult with local community and key stakeholders and measures to mitigate potential issues throughout the development.





#### Table 3 Communication Management and Mitigation Tools

Tool/ Technique	Description	Person Responsible	Audience	Frequency/timing	Specifications
Consultation Meetings	Meetings held to	Engagement	The wider community	Quarterly Town Halls to	Details and matters to
	notify, discuss or	Representative with	and key stakeholders	be established to	be discussed to be
	consult on matters	assistance from PM		update the public on	tailored to the purpose
	arising of relevance of			the progress of the	and aims of the
	community and/or key			road works. One to	meeting.
	stakeholders.			occur prior to	
				commencement. Town	Record of conversation
	Meetings to be held			Halls to exist during the	(informal) or minutes
	either face to face or			construction	(formal) to be
	on virtual platform(s).				recorded, retained by
				Additional meetings to	SFKC and provided to
				be held on an as needs	all attendees following
				basis dependent on	the meetings. A record
				matters to be discussed	of the discussions shall
				and appropriate timing	be included in the
				of discussions.	Complaints Register
					and actioned as
					required.
Complaints Register	Recording community	Engagement	The wider community	Project duration	The maintenance of
	and stakeholder	Representative with	and key stakeholders		the Complaints
	interactions (including	assistance from PM			Register will be
	notifications,				continually updated to
	consultation, queries,				record community
			- 80		

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	comments and complaints), along with associated remedial actions as required				engagement including information provided by SFKC, feedback received and remedial action undertaken where required.
Agency Meetings	Meetings with agencies to discuss matters relevant to their agency	Engagement Representative	Relevant Agency	As required	Meetings will be held as required to address matters relevant to specific agencies. These shall be undertaken directly by SFKC.
Notification Letterbox Drop	Letters would be provided to specific receivers identified as being potentially affected by construction. This may be undertaken in tandem with doorknocking.	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	Letterbox drop details to be recorded in the Complaints Register. Letterbox drops to occur at big project milestones, such as completion of stages, prior to Town Hall events, or any changes to traffic management which would affect the broader community.

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Email and phone	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder and	Representative with	and key stakeholders	project duration	consent, contact details
	contact details	assistance from the			shall be utilised to
	provided, contact is	PM.			provide notification or
	made via email, phone				further contact to
	and/or text message to				respond to query or
	notify or respond to				complaint.
	query or complaint.				
					Recorded contact
					details are to be kept
					private and used
					exclusively for the
					purpose of
					consultation on the
					project.
Email Mailing List	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder, an	Representative with	and key stakeholders	project duration	consent, contact details
	email mailing list to be	assistance from the			shall be utilised to
	set up to notify	PM.			provide notification or
	interested parties in				further contact to
	updates on the project.				respond to query or
					complaint.
					Recorded contact
					details are to be kept

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					private and used exclusively for the purpose of consultation on the project.
On Site Signage	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Contain key project contact details including the hotline and webpage, along with relevant project and safety information.
VMS Boards	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Inform updates on changes to traffic conditions during the road upgrade works.
Project Information and Complaints Number	Phone number to be contacted should information on the project be required or complaint lodged.	Engagement Representative with assistance from the PM	The wider community and key stakeholders	Project duration	Phone number to be included on site signage, the webpage and all project information material. Feedback provided to be incorporated into the Complaints

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					Register and actioned as required.
Staff and Visitor Induction and Training	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Key project safety information, contact details, emergency procedures and site information.
Toolbox and Prestart Meetings	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Task specific safety information, emergency procedures, and relevant project updates. All staff and subcontractors to be made aware of external and internal communication procedures.
Website	A webpage to be established for the road works	SFKC and its delivery partners	The wider community and key stakeholders	Project duration	Website address and phone number located on site signage and all project information. Webpage to detail road works, updates on traffic conditions. To be

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			utilised as a way to
			keep live updates
			available to interested
			parties.

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#### 4.4 Notification Procedure

Where notification is required, notification shall be undertaken within the timeframes outlined in the engagement strategy associated with key milestone dates on road delivery or changes to traffic conditions. Where notification is required due to a potential impact or issue, notification shall be undertaken in accordance with **Table 4** below.

#### Table 4 Notification of Potential Impact or Issue

Potential Impact or Issue	Method of Contact/Consultation	Timeframe
High noise generating work	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Vibration intensive activity	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Traffic management disruption	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours.	



	VMS boards to be updated notifying changes to traffic patterns	Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Respite offerings	Email or phone calls will be undertaken to determine whether respite is required and appropriate for scheduling and duration for respite periods	Discussion with immediate landowners no less than 7 days prior to the activity
Night Works	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	Notification of immediate landowners no less than 7 days prior to the activity Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Emergency Event	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	As soon as possible





#### 4.5 Complaints Procedure

SFKC is committed to timely and effective management of enquiries and complaints relating to construction activities for the project. To this end, the following complaints procedure will be adhered to, enabling the receipt of recording the enquiries and complaints, along with the methods of response and resolution of issues raised.

4.5.1 Receiving and Recording Enquiries and Complaints

SFKC will establish a project email address and nominate a phone number for the receipt of enquiries and complaints relating to the development. The email account will be regularly updated monitored to receive and respond to customer feedback and enquiries. The phone number will be available for contact from the commencement of works. The project manager will manage the phoneline from the commencement of the project until the completion of works. Where call are received during hours of construction work (including out of hours works) all calls will be answered by the project manager. Where calls are received outside of hours of construction works the caller will be invited to leave a message. All approached from the community stakeholder will be registered in the project's Complaints Register.

SFKC will establish a Complaints Register to record all complaints and enquiries received. The Complaints Register will be maintained on a regular basis. The Complaints Register shall include the following details for all complaints and enquiries received:

- Date and time of complaint or enquiry
- Method by which the complaint or enquiry was made
- Name, address, contact telephone number of complainant (if no such details were provided, a note to that effect)
- Nature of complaint or enquiry
- Action taken in response including follow up contact with the complainant
- Any monitoring to confirm that the complainant or enquiry has been satisfactorily resolved; and
- If no action is taken, the reasons why no action was taken by you.
- 4.5.2 Responding to and Resolving Enquiries and Complaints

Where a complaint or enquiry is received, the engagement representative or project manager will attempt to provide an immediate response if possible via phone or email. Where a complaint or enquiry cannot be responded immediately, an assessment and prioritisation of resolving the enquiry will be undertaken with an aim to provide a





response within two hours during construction works and 24 hours at other times. Where a complaint or enquiry cannot be resolved by the initial or follow-up response, a written response will be provided to the complainant within 10 days.

In the event of a complaint, the engagement representative will assess whether the complaint is founded or unfounded. If necessary, the engagement representative will delegate resolution of the issue to the project manager or superintendent for action with the contractor. The engagement representative will oversee the rectification of the issue and respond to the complainant once the issue has been resolved.

In the event of an enquiry, the engagement representative or project manager will endeavour to provide an immediate response where they are in possession of the relevant information. Where more specific or detailed information is required, the engagement representative will liaise with the project manager, superintendent and/or contractor to obtain the information required to respond to the enquiry and provide the information to the enquiring party once in hand.

Where the above protocol in unsuccessful in resolving complaints, mediation may be undertaken at the discretion of SFKC to facilitate negotiations between affected parties. This shall be performed with the assistance of the project manager and potentially via an independent person (mediator) appointed by SFKC as required.

4.5.3 Unreasonable Complainant Conduct

The NSW Ombudsman provides guidelines which define unreasonable complainant conduct as:

"...any behaviour by a current or former complainant which, because of its nature or frequency, raises substantial health, safety, resource or equity issues for the parties to a complaint."

While it is not envisioned that the project will attract complainants that exhibit this behaviour, where a complainant is seen to potentially have a negative impact on the engagement representative or project team's health, safety, resourcing or equity of service, SFKC shall adhere to the procedures and practices outlined within the NSW Ombudsman's *"Managing Unreasonable Complainant Conduct Practice Manual 2<sup>nd</sup> Edition"*.





### 5. Monitoring

Monitoring will be undertaken to measure the effectiveness of community consultation, stakeholder engagement and responses to complaints and enquiries. Opportunities for improvement will be south on a continuous basis, with an annual review by the Engagement Representative undertaken to formalise these incremental improvements.

The performance of this strategy will be monitored monthly based upon an assessment of the following data:

- Total number of monthly complaints
- Review of number of monthly complaints relating to lack of consultation/ misinformation confusion
- Review of number of monthly enquiries relating to information previously disseminated to the community through other channels
- Monthly review of enquiries or complaints of a similar nature or theme indicative of underlying systematic issues with the project or engagement strategy; and
- Response timeframes, including initial acknowledgement and the response to enquiries or remediation of issue(s).

Should updates be identified, the engagement representative shall update the document and advise the DPHI of the proposed amendments.





Making Sustainability Happen

# Appendix L Fill Management Plan



# Fill Management Plan (FMP)

Mamre Road, Abbotts Road and Aldington Road Upgrade, Kemps

### **Creek NSW**

Prepared for: Land Owners Group – East c/o AT&L

A101024.0241.00 | FMP.V1f | Date: 7 August 2024





### **Document Information**

Report Title: Fill Management Plan Prepared for: Land Owners Group – East c/o AT&L Project Address: Mamre Road, Abbotts Road and Aldington Road Upgrade, Kemps Creek NSW File Reference: A101024.0241.00 Report Reference: FMP.v1f Date: 7 August 2024

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For and on behalf of

#### ADE Consulting Group Pty Ltd

Prepared by:

Reviewed by:

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## Contents

1	I	INTF	FRODUCTION & BACKGROUND4				
	1.1		Intro				
	1.2		Back	ground			
	1.3		Site	Identification			
2	I	LEGI	ISLA	TION, GUIDELINES and DEFINITIONS	6		
	2.1		Defi	nitions	6		
	2	2.1.1		VENM Definition	6		
	2	2.1.1		ENM Definition	7		
	2	2.1.2		Site Specific Resource Recovery Exemptions (SSRRE)	7		
	2	2.1.3		Site Specific Resource Recovery Orders (SSRRO)	7		
3	I	IMP	ORTI	ED MATERIAL ACCEPTANCE CRITERIA	8		
	3.1		Mate	erial Generator Requirements			
	3.2		VENM Acceptance Criteria				
	3.2.1 VENM Sampling Densi			VENM Sampling Density and Analysis			
3.2		3.2.2		VENM Criteria	9		
	3.3		ENM	I Acceptance Criteria			
	3.4		Site	Specific Resource Recovery Orders and Exemptions			
	3.5		Tops	oil Acceptance Criteria			
	3.6		Unsı	uitable Materials			
4	/	APP	ROV	AL and ASSESSMENT	12		
	4.1		Appr	roval of Source Site			
	4.2		Truck Movement Records				
	4.3		Non-Compliance				
5	I	LIMI	TAT	IONS	14		
6	I	Refe	ferences				
A	оре	endi	x A –	- Activities Including PFAS: National Environmental Management Plan	16		
A	оре	endi	х В —	Excavated Natural Material Order 2014			
A	оре	endi	x C –	Proposed Check Sampling Densities	19		



## Appendices

Appendix A - Figure

Appendix B – Activities Including PFAS: National Environmental Management Plan

Appendix C – Excavated Natural Material Order 2014

Appendix D – Proposed Check Sampling Densities

## Tables



## **Abbreviations**

Abbreviation	Definition
ACM	Asbestos Containing Material
ADE	ADE Consulting Group Pty Ltd
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CLM	Contaminated Land Management
CoC	Chain of Custody
CoPCs	Contaminants of Potential Concern
EPA	Environment Protection Authority
ENM	Excavated Natural Material
ERM	Environmental Resources Management
FMP	Fill Management Plan
LOG-E	Land Owners Group- East
m BGL	meters Below Ground Level
NATA	National Association of Testing Authorities
NEPC	National Environmental Protection Council
NEMP	PFAS National Environmental Management Plan
NEPM	National Environmental Protection Measure
NSW	New South Wales
NSW EPA	New South Wales Environment Protection Authority
OPPs	Organophosphorus Pesticides
OCPs	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAHs	Polycyclic Aromatic Hydrocarbons
PFAS	Per-fluoroalkyl substances
POEO	Protection of Environmental Operations
SSRRE	Site-Specific Resource Recovery Exemption
SSRRO	Site Specific Resource Recovery Orders
VENM	Virgin Excavated Natural Material



## **1 INTRODUCTION & BACKGROUND**

### **1.1 Introduction**

ADE Consulting Group Pty Ltd (ADE) was commissioned by Land Owners Group – East (LOG-E) (the Client) to prepare a Fill Management Plan (FMP) for the assessment of imported fill material at Mamre Road, Abbotts Road and Aldington Road Upgrade (AARU and MAIU), Kemps Creek NSW (hereafter referred to as 'the site'). The FMP is applicable for assessing the suitability of soil/rock materials to be imported onto the site as part of the development works.

The purpose of the FMP is to set out the requirements for imported fill materials with respect to contamination. Application of this FMP to all soil / rock materials will provide a consistent approach to the management of imported materials with respect to their suitability for use as part of the site rehabilitation works. The site is currently accepting fill material classified as virgin excavated natural material (VENM), excavated natural material (ENM) and any Site-Specific Resource Recovery Exemption / Order (SSRRE) as granted by the New South Wales Environmental Protection Authority (NSW EPA).

ADE considers that it is the responsibility of Land Owners Group – East (LOG-E) and/or their nominated representative to ensure compliance with this FMP. It is recommended that the filling material suppliers are issued with a copy of this FMP. The suppliers will be requested to provide supporting information and evidence to verify that the imported material complies with this FMP. Land Owners Group – East (LOG-E) has the right to make the final decision on the suitability of the material imported onto the Site. This FMP may be updated from time to time to reflect changes to industry standards or site requirements.

### 1.2 Background

ADE understands that the proposed development location comprises an approximate 2.8 kilometre (km) for AARU and 1.2 km on Mamre Road stretch of road from the intersection of Mamre Road and Abbotts Road, extending up Aldington Road, Kemps Creek. The Site has a length of 4 km, located within the Penrith City Council Local Government Area (LGA). The proposed works are for the purpose of complying with the client's development application (DA) and includes various cut and fill activities and road widenings along the project area.

ADE has not been provided with detailed earthworks plans by the client.

### **1.3 Site Identification**

A previous detailed site investigation (DSI) had been undertaken by ADE (ADE, 2023) and the contents are summarised as follows:

- The site comprises public road reserves and private land across multiple residential properties located at Abbotts and Mamre Road, Kemps Creek, NSW. The site comprises Abbotts Road reserve from the western end to Abbotts / Aldington intersection, Aldington Road reserve from the junction to the north, and 5-10 metres (m) extension to private land of both roadsides with the total route length 2.8 km.
- The site is situated within the Local Government Area (LGA) of Penrith City Council and is zoned as 'IN1 – General Industrial' under the Penrith City Planning Certificate under section 10.7(2) of the Environmental Planning and Assessment Act 1979.



- The site has a moderate to steep sloping surface towards southwest, ranging from 44-74 m Australian Height Datum (AHD). The lowest point (44 m) on-site is in the southwestern portion of the site, with the highest point is located at the northern end of the Site.
- Immediately north of the site is an environmental conservation area. Industrial development is underway approximately 300m to the north of the Site. The site is predominantly surrounded by agricultural land, vacant grassland/ paddocks, public road reserves and rural residential properties to the east, south and west.
- 4 dams are identified on-site. The closest surface water body to the site is Kemps Creek. The closest portion of Kemps Creek is located approximately 350m west of the Site.

Please refer to Figure 1 in Appendix A – Figures for site location.



## **2** LEGISLATION, GUIDELINES and DEFINITIONS

Importation of materials onto the Site must fully abide by the provisions of relevant legislative framework and guidelines that have been issued and/or endorsed by the NSW Environmental Protection Authority (EPA) under the following Acts/Regulations:

- Environmental Planning and Assessment (EPA) Act 1979;
- Protection of the Environment Operations (POEO) Act 1997;
- Contaminated Land Management (CLM) Act 1997; and
- Schedule 3 of the State Environmental Planning Policy (State and Regional Development) 2011.

The relevant guidelines issued under the provisions of the aforementioned Acts/Regulations include:

- Australian Standards AS3798: Guidelines on Earthworks for Commercial & Residential Developments (1998) [AS3798];
- Department of Land and Water conservation (DLWC) (2002). Site Investigations for Urban Salinity;
- National Environment Protection Council (NEPC) (2013). National Environmental Protection (Assessment of Site Contamination) Measure Amended 2013. (ASC NEPM, 2013).
- NSW EPA (2014). Excavated Natural Material Order 2014;
- NSW EPA (2014a). Waste Classification Guidelines Part 1: Classifying Waste;
- NSW EPA (2015). Guidelines on the duty to report contamination under the contaminated land management Act 1997;
- NSW EPA (2017). Guidelines for the NSW Site Auditor Scheme (3rd edition);
- NSW EPA (2020). Guidelines for consultants reporting on contaminated land;
- NSW EPA (2022). Contaminated Land Guidelines, Sampling design part 1 application.
- The Heads of EPAs Australia and New Zealand [HEPA] (2020). *PFAS National Environmental Management Plan (NEMP*); and
- Protection of the Environment Operations (Waste) Regulation 2014 (NSW) Relevant associated resource recovery orders and exemptions issued under part 9, Clause 91 and 92.

### 2.1 Definitions

### 2.1.1 VENM Definition

The Protection of the Environment Operations Act (POEO Act) defines Virgin Excavated Natural Material (VENM) as:

Natural material (such as clay, gravel, sand, soil or rock fines):

a) That has been excavated or quarried from areas that are not contaminated with manufactured chemicals, or with process residues, as a result of industrial, commercial, mining or agricultural activities and


b) That does not contain any sulfidic ores or soils or any other waste and excludes excavated natural material that meets such criteria for virgin excavated natural material as may be approved for the time being pursuant to an EPA Gazettal notice.

#### 2.1.1 ENM Definition

Excavated Natural Material (ENM) is naturally occurring rock and soil (including material such as sandstone, shale, clay and soil) that has:

- a) Been excavated from the ground;
- b) Contains at least 98 per cent (by weight) natural material; and
- c) Does not meet the definition of VENM.

ENM does not include material that has been processed or contains acid sulfate soils or potential acid sulfate soils.

#### 2.1.2 Site Specific Resource Recovery Exemptions (SSRRE)

SSRRE contain the conditions that consumers must meet to use the resource recovery waste for application to land as fill. These conditions may include requirements regarding how to reuse or apply the waste, as well as record keeping, reporting and other requirements.

#### 2.1.3 Site Specific Resource Recovery Orders (SSRRO)

SSRRO contain the conditions that generators and processors of waste must meet to legally supply the resource recovery waste material for land application. These conditions may include material specifications, processing specifications, record keeping, reporting and other requirements.



# **3 IMPORTED MATERIAL ACCEPTANCE CRITERIA**

Materials imported to the site must satisfy the minimum requirements detailed below. All materials to be imported must be accompanied by appropriate reports from qualified Environmental Consultants verifying the status of the material with respect to contamination.

All imported soil / rock material must be verified to be either VENM, ENM or other SSRRE as defined by the NSW EPA (2014) *Waste Classification Guidelines* (NSW EPA, 2014), current general resource recovery exemptions/orders (exemptions contain the conditions that consumers must meet to use the resource recovery waste for application to land as fill) or specific exemptions granted by the EPA, as defined above, or certified top soil for use in landscape designated areas.

As the NSW EPA has no specific VENM assessment criteria, VENM material should be reviewed on the basis of the source site history, "observation" and property of material and should meet the relevant background ranges for metals and BTEX adopted from Berkman 1989 and ANZECC 1992 (whichever is higher). Details of the source site address, history, environmental setting (geology, potential acid sulfate soil, salinity) and potential impact from surrounds, including consideration of per- and poly-fluoroalkyl substances (PFAS), should be addressed within the corresponding waste classification report.

As per HEPA 2020 NEMP 2.0 (2020), screening for PFAS contaminated materials should be screened if:

- sourced from locations that historically or currently use or store PFAS-containing products, noting that all PFAS formulations should be considered (refer to Appendix A – Activities Including PFAS: National Environmental Management Plan);
- identified as a point source (e.g., firefighting training facilities, foam installations, metal plating works, electricity generation and/or distribution facilities); and
- identified as a secondary source (e.g., landfill, wastewater treatment facility and/or biosolids use site).

### 3.1 Material Generator Requirements

The generator of the material must provide details on the source of the material prior to the material being imported onto Site. The details must include information such as suppliers' details, source site details, environmental/geotechnical details, and general information on the soil.

### 3.2 VENM Acceptance Criteria

For VENM to be accepted, the concentrations of contaminants of potential concern (CoPCs) are to meet the relevant background ranges for metals adopted from The Field Geologists' Manual (3<sup>rd</sup> ed.) (Berkman, 1989) and with respect to organic analytes, their analytical practical quantitation limits (see extract in **Appendix B–Table 4**). All VENM must be accompanied by an assessment report from a suitably qualified Environmental Consultant. The assessment should include appropriate levels of sample analyses conducted at the acceptable sampling density.

#### 3.2.1 VENM Sampling Density and Analysis

Samples for the assessment of VENM for both stockpiles and in-situ material must be collected at the density specified within **Appendix B– Table 1 & 2**. Samples for in-situ material must be collected from the surface, and



at depths where contamination is suspected. Additional samples should be collected if there is uncertainty in the data obtained and if further assessment is required.

Discrete samples must be collected and submitted to a National Association Testing Authorities (NATA) accredited laboratory for the analysis of the following contaminants of potential concern:

- Heavy Metals (Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Nickel and Zinc);
- Total Recoverable Hydrocarbons (TRHs);
- Benzene, Toluene, Ethyl-benzene, Xylene (BTEX);
- Polycyclic Aromatic Hydrocarbons (PAHs);
- Polychlorinated Biphenyls (PCBs);
- Organochlorine Pesticides / Organophosphorus Pesticides (OCPs/OPPs);
- PFAS;
- Potential Hydrogen (pH); and
- Asbestos (presence/absence).

#### 3.2.2 VENM Criteria

VENM criteria are provide in **Table 1** below.

Contaminants*	Berkman <sup>1</sup> (mg/kg)	ANZECC <sup>2</sup>		
TPH <sup>3, 4</sup>				
C6-C10	For all organic analytes, the analytical			
С10-с36	used as the reference levels for VENM Assessment.			
C16-C34				
C34-C40				
BTEX <sup>3</sup>				
Benzene	For all organic analytes, the	0.05-1		
Toluene	analytical practical quantitation	0.1-1		
Ethylbenzene	limits are used as the reference	-		
Xylene	levels for VENM Assessment.	-		
m.p Xylene		-		
Metals				
Arsenic	1-50	0.2-30		
Cadmium	1	0.04-2		
Chromium (III)	5-1000	0.5-110		
Copper	2-100	1-190		
Lead	2-200	<2-200		
Mercury	0.03	0.001-0.1		
Nickel	5-500	2-400		
Zinc	10-300	1-180		
PAHs <sup>3, 5</sup>				
Total PAHs				
Benzo(a)pyrene				
PCBs <sup>3</sup>				
OCP / OPP <sup>3</sup>	For all organic analytes, the analytical	practical quantitation limits are		
Aldrin + Dieldrin	used as the reference levels i			
Chlordane				
DDD, DDE, DDT				
Heptachlor				

#### Table 1. Reference contaminants values for VENM apply to imported natural materials.



Contaminants*	Berkman <sup>1</sup> (mg/kg)	ANZECC <sup>2</sup>	
Chlorpyrifos			
Asbestos	No presence of asbestos		
PASS	No sulfidic ores or indicators of potential acid sulfate soils		
рН <sup>6</sup>	4.5-10	6-8	
PFAS <sup>7</sup>	The analytical practical quantitation limits are used as the reference levels for VENM Assessment.		

#### Notes:

<sup>1</sup> Berkman (1989) Field Geologists' Manual;

<sup>2</sup> Australian and New Zealand Environment and Conservation Council/National Health and Medical Research Council (ANZECC/NHMRC): Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (1992), Environmental Soil Quality Guidelines Background A [ANZECC A].

<sup>3</sup> For all organic analytes the practical quantitation limit (PQL) must be low enough to meet the applicable land use criteria (HIL/HSL D).

<sup>4</sup> Some sources of natural shale rock may contain low level concentrations of TPH; in this instance it is at the discretion of Land Owners Group – East (LOG-E) or their nominated representative to accept the material as VENM. <sup>5</sup> Some soils may contain natural concentrations of PAHs; in this instance it is at the discretion of Land Owners Group – East (LOG-E) or their nominated representative to accept the material as VENM.

<sup>6</sup> pH criteria (absolute maximum concentration) adopted from *The ENM Order* (2014).

<sup>7</sup> PFAS screening only required from source locations deemed as high risk during the initial assessment.

\* Other CoPCs may need to be analysed if there is the potential for the contaminant to occur in or adjacent to the source site.

### 3.3 ENM Acceptance Criteria

The ENM acceptance criteria has been adopted directly from the ENM Order (2014) which has been provided in **Appendix B**. The sampling requirements including sampling density and analysis are provided in **Tables 1, 2** and **3** of the ENM Order in **Appendix B**. Additional samples should be collected if there is uncertainty in the data obtained, if the source location is deemed at risk of PFAS contamination and if further assessment is required.

### **3.4** Site Specific Resource Recovery Orders and Exemptions

Material defined under a SSRRE/O granted by the EPA are required to meet the conditions defined therein prior to being accepted into the Land Owners Group – East (LOG-E) project. The importation of exempt material is subject to approval by Land Owners Group – East (LOG-E) at its absolute discretion.

# 3.5 Topsoil Acceptance Criteria

Topsoil may be proposed in areas of landscaping to promote healthy vegetation growth. The topsoil may be imported from a specialised supplier or from an approved site in accordance with the VENM criteria outlined in **Table 1** above.

# 3.6 Unsuitable Materials

The materials are not, or do not contain any of the unsuitable materials listed below:



- Acid Sulfate Soils
- Asbestos
- Biocides
- Chemical Storage
   Containers
- Contaminated Material
- Demolition Rubble
- Excessively Wet Soils
- Explosives
- Fibro

- Food Waste
- Fungicides
- Herbicides
- Vegetative Waste
- Household Domestic Waste
- Large Rock Fragments
- Liquid Waste
- Metals
- Non-validated Material

- Oil Filters and Rags
- Paint
- Pesticides
- Plastics and PVC
- Radioactive Waste
- Sanitary Waste
- Timber (inc. Treated)
- Tyres



# 4 APPROVAL and ASSESSMENT

# 4.1 Approval of Source Site

Materials will be judged as suitable or otherwise by LOG-E and/or their representative based on the provided documentation, and the apparent reliability or otherwise of the documentation and its conformance with this FMP.

- 1. An initial validation/classification report is submitted to LOG-E's nominated environmental representative, assigned unique identifier number, and screened against the requirements of this document, "FMP" (ADE, 2024)
  - **a.** For VENM, if material is deemed compliant with the FMP (ADE, 2024) and the subject material is deemed low risk, no check sampling will be required unless otherwise requested by LOG-E. Proceed to step 2.
  - **b.** For ENM or if the subject material is deemed moderate to high risk, check sampling must be collected, unless otherwise requested by LOG-E, by LOG-E's nominated environmental representative and analysed, via a NATA accredited laboratory, in accordance with the sample densities and analytes specified within **Table A1** in **Appendix C**. Proceed to step 2.
- **2.** A site inspection is to be conducted by LOG-E or their nominated representative to document and visually assess the source materials and site conditions.
  - **a.** Where the site inspection notes differing material descriptions or site conditions with potential for contamination, LOG-E may request a site inspection/check sampling be carried out by their nominated environmental representative.
- **3.** Should the source site inspection and check sample results (if collected) be found to comply with the FMP, a Memorandum of Review (MOR) including details of the initial classification, source site inspection(s), check sampling results and any conditions of approval will be provided to LOG-E as an approval to accept the material for import.

In certain circumstances, LOG-E may elect not to proceed with check sampling for any site at its discretion.

Material deemed compliant with this FMP via the initial classification report then, source site will be provided with a unique identifier No. (i.e. approval number). In addition, an upfront site inspection of the source materials and check samples will be collected and analysed against either VENM, ENM or other SSRRE criteria, via a NATA accredited laboratory, in accordance with the sample densities and analytes specified within **Table A1** in **Appendix C**.

If material being imported does not match the description within the approved classification report, then importation of material from source site will be stopped and deemed rejected until source site can verify/classify/justify material as being suitable for this FMP.

Any materials deemed 'not to comply' or 'yet to comply' with this protocol should not be imported onto the Site. If doubt arises with respect to any materials already imported onto the site, the materials shall remain stockpiled, fenced and signposted in a clearly defined area pending final assessment. If materials at the Site are deemed unacceptable for use for the development works, a specific management plan for these materials should be developed by a suitably qualified Environmental Consultant.



# 4.2 Truck Movement Records

A record of truck movements should be maintained for trucks carrying material imported to the site providing the following information:

- The date and time of truck arrival;
- The source location of the material;
- Source site approval number (unique identification number confirming approved source);
- The truck registration details;
- Material type;
- The approximate volume/tonnage of material per load;
- Visual assessment of material at gate; and
- Record of load acceptance / rejection.

Materials not deemed consistent with the supporting documentation will be rejected from entering the site. Similarly, materials will be rejected if the volume exceeds that stated in the supporting documentation. A supplementary assessment may be made by the source site's consultant to allow for the additional volume; however, this must be submitted for review to LOG-E prior to acceptance.

# 4.3 Non-Compliance

Any material imported to site that is found to be non-compliant (discovered during check testing or during general site activities), or subject to be, will be isolated and assessed by LOG-E and/or their representative. If the non-compliant material is found to be incompatible with the Site, it will be removed at the cost of the source site and/or the importing contractor. The cost of remediation and validation will be borne by the source site and/or the importing contractor



# **5 LIMITATIONS**

This report has been prepared for use by LOG-E who have commissioned the works in accordance with the project brief only and has been based on information provided by the client. The advice herein relates only to this project and contents should be reviewed by a competent and experienced person with experience in said reports, before being used for any other purpose. ADE accepts no liability for use or interpretation by any person or body other than the client who commissioned the works. This report should not be reproduced or amended in any away without prior approval by the client or ADE and should not be relied upon by any other party, who should make their own independent enquiries.

This report does not provide an assessment of the environmental status of the site, and it is limited to the scope defined herein. ADE's professional opinions are based upon its professional judgment, experience, and training.

ADE has used a degree of care and skill ordinarily exercised in similar investigations by reputable members of the Environmental Industry within Australia. No other warranty, expressed or implied, is made or intended.



# 6 References

Australian and New Zealand Environment and Conservation Council/National Health and Medical Research Council (ANZECC/NHMRC): Australian and New Zealand Guidelines for the Assessment and Management of Contaminated Sites (1992), Environmental Soil Quality Guidelines Background A [ANZECC A].

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D.A Berkman. (1989) Field Geologist's Manual (D.A. Berkman, 1989).

Department of Land and Water conservation (DLWC) (2002). Site Investigations for Urban Salinity.

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NSW EPA (2014). Excavated Natural Material Order 2014.

NSW EPA (2014a). Waste Classification Guidelines Part 1: Classifying Waste.

NSW EPA (2015). *Guidelines on the duty to report contamination under the contaminated land management Act 1997.* 

NSW EPA (2017). Guidelines for the NSW Site Auditor Scheme (3<sup>rd</sup> edition).

NSW EPA (2020). Guidelines for consultants reporting on contaminated land.

NSW EPA (2022). Contaminated Land Guidelines, Sampling design part 1 – application.

The Heads of EPAs Australia and New Zealand [HEPA] (2020). PFAS National Environmental Management Plan (NEMP).

Protection of the Environment Operations (Waste) Regulation 2014 (NSW) – Relevant associated resource recovery orders and exemptions issued under part 9, Clause 91 and 92.



# Appendix A - Figure



CING - DOCUMEN				19	NON-			TTOAAA				
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Appendix B – Activities Including PFAS: National Environmental Management Plan

# Appendix B. Activities associated with point sources of PFAS contamination

Tables B1 and B2 identify activities associated with PFAS contamination, with a focus on primary and secondary sources.

Activity Description Airports and aviation infrastructure On-site firefighting - see also further information below Aluminium production On-site firefighting Battery production On-site firefighting- see also further information below Bitumen production Kerosene use and storage Brewing, distilling and refining Ethanol production Coal works On-site firefighting On-site firefighting - likely to use specialised firefighting Dangerous goods production products and systems due to the presence of a range of hydrocarbons, polar solvents etc. Explosives production On-site firefighting - explosions On-site firefighting associated with use of bulk oils and Food production solvents - see also further information below Fuel exploration, assessment, production, transport and storage On-site firefighting, also used as a surfactant for gas well including petrochemicals, other stimulation fossil fuels and renewable liquid fuels On-site firefighting - likely to use a range of hydrocarbons, General chemical storage polar solvents etc. Generation of electrical power On-site firefighting - see also further information below Firefighting foam deluge systems - see also further Hardware retailers information below on the construction industry Mining On-site firefighting Paints, polishes, adhesives On-site firefighting- see also further information below production Petroleum products other than On-site firefighting, potential use in processing fuels Underground infrastructure Firefighting foam deluge systems including car parks and tunnels

Table B1. Activities associated with PFAS contamination due to a risk of fire

Activity	Description
Agriculture	Potentially used as an adjuvant or active ingredient in fertilisers and pesticides, firefighting foam used in the poultry industry to destroy infected flocks
Automotive industry including retailing, detailing and car wash facilities	Surface treatments including polishing, cleaning, stain and water protection products, lubricants, hydraulic fluids, tubing, oil pan, head gaskets, sealant, wire and cabling, fire retardant and metal plating applications
Aviation, aerospace and defence	As for automotive industry plus aviation-specific products, articles and activities, such as aviation hydraulic fluid
Battery use and disposal	Used in batteries, particularly for high-end use such as lithium-style batteries
Boating and marine supply industry	As for automotive industry plus marine-specific products, articles and activities, such as awnings, painting, waterproofing and sealant applications, and shipboard firefighting
Chrome/metal plating industry	High concentration PFAS mist suppressants used to reduce chromium exposure to workers
Commercial laundries and dry cleaners	Effluent from cleaning of fabrics containing or treated with PFAS
Construction industry	Tile coatings, stone coatings, paints, varnishes, sealants, other architectural coatings for films, facades and infrastructure, rigid foams, silicone rubber, thread sealant tapes and pastes and PPE
Electricity, telecommunication and information technologies	Wireless devices, hard drives, fibre optic cables, dirt- repellent coatings on glass surfaces such as smartphone screens, flame-resistant devices, fittings, coatings and wrappings, semiconductor etching, firefighting at electricity generation sites and in electricity distribution networks with oil-containing equipment such as transformers, reactors, large regulators, circuit breakers, pipe-type cable systems and bulk storage tanks, reported to be in high-end lithium batteries
Firefighting and fire protection sales and services	Storage and disposal of large quantities of firefighting foam associated with formulation, transport, sale and servicing of firefighting and fire protection products and services including refurbishment of deluge systems and fire extinguishers at fire protection retailers, rural supply stores, council depots and outstation service centres
Manufacturing of building products	As for construction industry
Manufacturing of chemicals, fertilisers and pesticides	Equipment and fittings including pipes, tanks and valves, use as an intermediate in the production of other substances, potentially used as an adjuvant in fertilisers and pesticides

### Table B2. Activities associated with PFAS contamination more broadly

Manufacturing of food, food packaging and food preparation products	Baking paper, aluminium foil, fast food wrappers, non- stick equipment including food processing facility surfaces, pipes, tanks and valves, and firefighting especially at facilities where bulk oil is used
Manufacturing of healthcare products	Surface protection for medical garments, small quantities in X-ray film, charged-coupled devices (CCDs), artificial blood, flexible tubing, needle coatings, denture cleaners, potentially in contact lenses
Manufacturing of household appliances	Heaters, heat lamps, irons, stoves, refrigerators, other flammable components, and high-end (lithium) batteries
Manufacturing of personal care products	Cosmetics, shampoo, shaving cream, dental floss, sunscreen, nail polish, talc, lotions
Manufacturing of textiles, leather, upholstery, carpets, clothing, shoes, outdoor gear	Widespread use of fluorinated compounds to provide stain, water and fire protection
Manufacturing of safety gear	Widespread use of fluorinated compounds to provide stain, water and fire protection for Personal Protective Equipment (PPE) and bulletproof clothing
Manufacturing of paints, polishes, coatings and adhesives	Historically used in sealants, adhesive products, coatings, paint and varnishes
Manufacturing of paper or pulp	Used in internal and surface sizing agents for paper manufacturing
Printing, packaging and merchandising	Used to apply grease, oil and water resistance to packaging product, also used in inks particularly for inkjet and photo printing
Recovery of waste oil	Collection and processing of PFAS-containing waste oil
Soap and detergents production	Household goods such as shampoos and cosmetics, commercial and industrial cleaning products such as floor polishes and vehicle cleaning agents
Solar energy	Used in photovoltaic solar cells to repel dirt and in lithium batteries
Sporting goods manufacturers and suppliers and sports facilities	Ski wax, high performance textiles including outdoor clothing, water-resistant treatments
Waste processing and disposal	PFAS-containing solid and liquid waste and leachate in landfill, high temperature incineration, chemical and other treatment regimes
Waste storage - hazardous, restricted solid, liquid, clinical, asbestos waste	On- and off-site storage and/or collection of waste PFAS- containing products
Wastewater treatment	Inputs from domestic sewage and commercial and industrial wastewater and outputs applied to land or discharged to the environment



# Appendix C – Excavated Natural Material Order 2014



# Resource Recovery Order under Part 9, Clause 93 of the Protection of the Environment Operations (Waste) Regulation 2014

# The excavated natural material order 2014

### Introduction

This order, issued by the Environment Protection Authority (EPA) under clause 93 of the Protection of the Environment Operations (Waste) Regulation 2014 (Waste Regulation), imposes the requirements that must be met by suppliers of excavated natural material to which 'the excavated natural material exemption 2014' applies. The requirements in this order apply in relation to the supply of excavated natural material for application to land as engineering fill or for use in earthworks.

# 1. Waste to which this order applies

- 1.1. This order applies to excavated natural material. In this order, excavated natural material means naturally occurring rock and soil (including but not limited to materials such as sandstone, shale, clay and soil) that has:
  - a) been excavated from the ground, and
  - b) contains at least 98% (by weight) natural material, and
  - c) does not meet the definition of Virgin Excavated Natural Material in the Act.

Excavated natural material does not include material located in a hotspot; that has been processed; or that contains asbestos, Acid Sulfate Soils (ASS), Potential Acid Sulfate soils (PASS) or sulfidic ores.

### 2. Persons to whom this order applies

- 2.1. The requirements in this order apply, as relevant, to any person who supplies excavated natural material, that has been generated, processed or recovered by the person.
- 2.2. This order does not apply to the supply of excavated natural material to a consumer for land application at a premises for which the consumer holds a licence under the POEO Act that authorises the carrying out of the scheduled activities on the premises under clause 39 'waste disposal (application to land)' or clause 40 'waste disposal (thermal treatment)' of Schedule 1 of the POEO Act.

# 3. Duration

3.1. This order commences on 24 November 2014 and is valid until revoked by the EPA by notice published in the Government Gazette.

### 4. Generator requirements

The EPA imposes the following requirements on any generator who supplies excavated natural material.

#### Sampling requirements

- 4.1. On or before supplying excavated natural material, the generator must:
  - 4.1.1. Prepare a written sampling plan which includes a description of sample preparation and storage procedures for the excavated natural material.
  - 4.1.2. Undertake sampling and testing of the excavated natural material as required under clauses 4.2, 4.3, and 4.4 below. The sampling must be carried out in accordance with the written sampling plan.
- 4.2. The generator must undertake sampling and analysis of the material for ASS and PASS, in accordance with the NSW Acid Sulfate Soil Manual, Acid Sulfate Soils Management Advisory Council, 1998 and the updated Laboratory Methods Guidelines version 2.1 June 2004 where:
  - 4.2.1. the pH measured in the material is below 5, and/or
  - 4.2.2. the review of the applicable Acid Sulfate Soil Risk Maps (published by the former Department of Land and Water Conservation and available at http://www.environment.nsw.gov.au/acidsulfatesoil/riskmaps.htm) indicates the potential presence of ASS.
- 4.3. For stockpiled material, the generator must:
  - 4.3.1. undertake sampling in accordance with Australian Standard 1141.3.1 2012 Methods for sampling and testing aggregates Sampling Aggregates (or equivalent);
  - 4.3.2. undertake characterisation sampling by collecting the number of samples listed in Column 2 of Table 1 with respect to the quantity of the waste listed in Column 1 of Table 1 and testing each sample for the chemicals and other attributes listed in Column 1 of Table 4. For the purposes of characterisation sampling the generator must collect:
    - 4.3.2.1. composite samples for attributes 1 to 10 and 18 in Column 1 of Table 4.
    - 4.3.2.2. discrete samples for attributes 11 to 17 in Column 1 of Table 4.
    - 4.3.2.3. The generator must carry out sampling in a way that ensures that the samples taken are representative of the material from the entire stockpile. All parts of the stockpile must be equally accessible for sampling.
    - 4.3.2.4. for stockpiles greater than 4,000 tonnes the number of samples described in Table 1 must be repeated.
  - 4.3.3. store the excavated natural material appropriately until the characterisation test results are validated as compliant with the maximum average concentration or other value listed in Column 2 of Table 4 and the absolute maximum concentration or other value listed in Column 3 of Table 4.

#### Table 1

Sampling of Stockpiled Material					
Column 1	Column 3				
Quantity (tonnes)	Number of samples	Validation			
<500	3				
500 - 1,000	4				
1,000 - 2,000	5	Required			
2,000 - 3,000	7				
3,000 - 4,000	10				

#### 4.4. For in situ material, the generator must:

- 4.4.1. undertake sampling by collecting discrete samples. Compositing of samples is not permitted for in-situ materials.
- 4.4.2. undertake characterisation sampling for the range of chemicals and other attributes listed in Column 1 of Table 4 according to the requirements listed in Columns 1, 2 and 3 of Table 2. When the ground surface is not comprised of soil (e.g. concrete slab), samples must be taken at the depth at which the soil commences.
- 4.4.3. undertake sampling at depth according to Column 1 of Table 3.
- 4.4.4. collect additional soil samples (and analyse them for the range of chemicals and other attributes listed in Column 1 of Table 4), at any depth exhibiting discolouration, staining, odour or other indicators of contamination inconsistent with soil samples collected at the depth intervals indicated in Table 3.
- 4.4.5. segregate and exclude hotspots identified in accordance with Table 2, from material excavated for reuse.
- 4.4.6. subdivide sites larger than 50,000 m<sup>2</sup> into smaller areas and sample each area as per Table 2.
- 4.4.7. store the excavated natural material appropriately until the characterisation test results are validated as compliant with the maximum average concentration or other value listed in Column 2 of Table 4 and the absolute maximum concentration or other value listed in Column 3 of Table 4.

#### Table 2

In Situ Sampling at surface							
Column 1	Column 2	Column 3	Column 4	Column 5			
Size of <i>in situ</i> area (m <sup>2</sup> )	Number of systematic sampling points recommended	Distance between two sampling points (m)	Diameter of the hot spot that can be detected with 95% confidence (m)	Validation			
500	5	10.0	11.8				
1000	6	12.9	15.2				
2000	7	16.9	19.9				
3000	9	18.2	21.5				
4000	11	19.1	22.5				
5000	13	19.6	23.1				
6000	15	20.0	23.6				
7000	17	20.3	23.9				
8000	19	20.5	24.2				
9000	20	21.2	25.0	Required			
10,000	21	21.8	25.7				
15,000	25	25.0	28.9				
20,000	30	25.8	30.5				
25,000	35	26.7	31.5				
30,000	40	27.5	32.4				
35,000	45	27.9	32.9				
40,000	50	28.3	33.4				
45,000	52	29.3	34.6				
50,000	55	30.2	35.6				

Table 2 has been taken from NSW EPA 1995, *Contaminated Sites Sampling Design Guidelines*, NSW Environment Protection Authority.

#### Table 3

In Situ Sampling at Depth				
Column 1	Column 2			
Sampling Requirements *	Validation			
1 soil sample at 1.0 m bgl from each surface sampling point followed by 1 soil sample for every metre thereafter.	Required if the depth of excavation is equal to or			
interval until the proposed depth of excavation of the material is reached. If the proposed depth of excavation is between 0.5 to 0.9 m after the last metre interval, sample at the base of the proposed depth of excavation.	greater than 1.0 m bgl			

\* Refer to Notes for examples

#### Chemical and other material requirements

- 4.5. The generator must not supply excavated natural material waste to any person if, in relation to any of the chemical and other attributes of the excavated natural material:
  - 4.5.1. The chemical concentration or other attribute of any sample collected and tested as part of the characterisation of the excavated natural material exceeds the absolute maximum concentration or other value listed in Column 3 of Table 4:
  - 4.5.2. The average concentration or other value of that attribute from the characterisation of the excavated natural material (based on the arithmetic mean) exceeds the maximum average concentration or other value listed in Column 2 of Table 4.
- 4.6. The absolute maximum concentration or other value of that attribute in any excavated natural material supplied under this order must not exceed the absolute maximum concentration or other value listed in Column 3 of Table 4.

Column 1	Column 2	Column 3	
Chemicals and other attributes	Maximum average concentration for	Absolute maximum concentration	
	characterisation (mg/kg 'dry weight' unless otherwise specified)	(mg/kg 'dry weight' unless otherwise specified)	
1. Mercury	0.5	1	
2. Cadmium	0.5	1	
3. Lead	50	100	
4. Arsenic	20	40	
5. Chromium (total)	75	150	
6. Copper	100	200	
7. Nickel	30	60	
8. Zinc	150	300	
9. Electrical Conductivity	1.5 dS/m	3 dS/m	
10. pH *	5 to 9	4.5 to 10	
11. Total Polycyclic Aromatic Hydrocarbons (PAHs)	20	40	
12. Benzo(a)pyrene	0.5	1	
13. Benzene	NA	0.5	
14. Toluene	NA	65	
15. Ethyl-benzene	NA	25	
16. Xylene	NA	15	
17. Total Petroleum Hydrocarbons C <sub>10</sub> -C <sub>36</sub>	250	500	
18. Rubber, plastic, bitumen, paper, cloth, paint and wood	0.05%	0.10%	

#### Table 4

\* The ranges given for pH are for the minimum and maximum acceptable pH values in the excavated natural material.

#### Test methods

- 4.7. The generator must ensure that any testing of samples required by this order is undertaken by analytical laboratories accredited by the National Association of Testing Authorities (NATA), or equivalent.
- 4.8. The generator must ensure that the chemicals and other attributes (listed in Column 1 of Table 4) in the excavated natural material it supplies are tested in accordance with the test methods specified below or other equivalent analytical methods. Where an equivalent analytical method is used the detection limit must be equal to or less than that nominated for the given method below.
  - 4.8.1. Test methods for measuring the mercury concentration.
    - 4.8.1.1. Analysis using USEPA SW-846 Method 7471B Mercury in solid or semisolid waste (manual cold vapour technique), or an equivalent analytical method with a detection limit < 20% of the stated absolute maximum concentration in Column 3 of Table 2 (i.e. < 0.20 mg/kg dry weight).</p>
    - 4.8.1.2. Report as mg/kg dry weight.
  - 4.8.2. Test methods for measuring chemicals 2 to 8.
    - 4.8.2.1. Sample preparation by digesting using USEPA SW-846 Method 3051A Microwave assisted acid digestion of sediments, sludges, soils, and oils (or an equivalent analytical method).
    - 4.8.2.2. Analysis using USEPA SW-846 Method 6010C Inductively coupled plasma atomic emission spectrometry, or an equivalent analytical method with a detection limit < 10% of the stated absolute maximum concentration in Column 3 of Table 2, (e.g. 10 mg/kg dry weight for lead).</p>
    - 4.8.2.3. Report as mg/kg dry weight.
  - 4.8.3. Test methods for measuring electrical conductivity and pH.
    - 4.8.3.1. Sample preparation by mixing 1 part excavated natural material with 5 parts distilled water.
    - 4.8.3.2. Analysis using Method 103 (pH) and 104 (Electrical Conductivity) in Schedule B (3): Guideline on Laboratory Analysis of Potentially Contaminated Soils, National Environment Protection (Assessment of Site Contamination) Measure 1999 (or an equivalent analytical method).
    - 4.8.3.3. Report electrical conductivity in deciSiemens per metre (dS/m).
  - 4.8.4. Test method for measuring Polynuclear Aromatic Hydrocarbons (PAHs) and benzo(a)pyrene.
    - 4.8.4.1. Analysis using USEPA SW-846 Method 8100 Polynuclear Aromatic Hydrocarbons (or an equivalent analytical method).
    - 4.8.4.2. Calculate the sum of all 16 PAHs for total PAHs.
    - 4.8.4.3. Report total PAHs as mg/kg dry weight.
    - 4.8.4.4. Report benzo(a)pyrene as mg/kg.

- 4.8.5. Test method for measuring benzene, toluene, ethylbenzene and xylenes (BTEX).
  - 4.8.5.1. Method 501 (Volatile Alkanes and Monocyclic Aromatic Hydrocarbons) in Schedule B (3): Guideline on Laboratory Analysis of Potentially Contaminated Soils, National Environment Protection (Assessment of Site Contamination) Measure 1999 (or an equivalent analytical method).
  - 4.8.5.2. Report BTEX as mg/kg.
- 4.8.6. Test method for measuring Total Petroleum Hydrocarbons (TPH).
  - 4.8.6.1. Method 506 (Petroleum Hydrocarbons) in Schedule B (3): Guideline on Laboratory Analysis of Potentially Contaminated Soils, National Environment Protection (Assessment of Site Contamination) Measure 1999 (or an equivalent analytical method).
  - 4.8.6.2. Report as mg/kg dry weight.
- 4.8.7. Test method for measuring rubber, plastic, bitumen, paper, cloth, paint and wood.
  - 4.8.7.1. NSW Roads & Traffic Authority Test Method T276 Foreign Materials Content of Recycled Crushed Concrete (or an equivalent method).
  - 4.8.7.2. Report as percent.

#### Notification

- 4.9. On or before each transaction, the generator must provide the following to each person to whom the generator supplies the excavated natural material:
  - a written statement of compliance certifying that all the requirements set out in this order have been met;
  - a copy of the excavated natural material exemption, or a link to the EPA website where the excavated natural material exemption can be found; and
  - a copy of the excavated natural material order, or a link to the EPA website where the excavated natural material order can be found.

#### Record keeping and reporting

- 4.10. The generator must keep a written record of the following for a period of six years:
  - the sampling plan required to be prepared under clause 4.1.1;
  - all characterisation sampling results in relation to the excavated natural material supplied;
  - the volume of detected hotspot material and the location;
  - the quantity of the excavated natural material supplied; and
  - the name and address of each person to whom the generator supplied the excavated natural material.
- 4.11. The generator must provide, on request, the characterisation and sampling results for that excavated natural material supplied to the consumer of the excavated natural material.

# 5. Definitions

In this order:

application or apply to land means applying to land by:

- spraying, spreading or depositing on the land; or
- ploughing, injecting or mixing into the land; or
- filling, raising, reclaiming or contouring the land.

Bgl means below ground level, referring to soil at depth beneath the ground surface.

**composite sample** means a sample that combines five discrete sub-samples of equal size into a single sample for the purpose of analysis.

**consumer** means a person who applies, or intends to apply excavated natural material to land.

**discrete sample** means a sample collected and analysed individually that will not be composited.

**generator** means a person who generates excavated natural material for supply to a consumer.

**hotspot** means a cylindrical volume which extends through the soil profile from the ground surface to the proposed depth of excavation, where the level of any contaminant listed in Column 1 of Table 2 is greater than the absolute maximum concentration in Column 3 of Table 2.

*in situ* material means material that exists on or below the ground level. It does not include stockpiled material.

in situ sampling means sampling undertaken on in situ material.

N/A means not applicable.

**stockpiled material** means material that has been excavated from the ground and temporarily stored on the ground prior to use.

**systematic sampling** means sampling at points that are selected at even intervals and are statistically unbiased.

transaction means:

- in the case of a one-off supply, the supply of a batch, truckload or stockpile of excavated natural material that is not repeated.
- in the case where the supplier has an arrangement with the recipient for more than one supply of excavated natural material, the first supply of excavated natural material as required under the arrangement.

Manager Waste Strategy and Innovation Environment Protection Authority (by delegation)

### Notes

The EPA may amend or revoke this order at any time. It is the responsibility of each of the generator and processor to ensure it complies with all relevant requirements of the most current order. The current version of this order will be available on 'www.epa.nsw.gov.au

In gazetting or otherwise issuing this order, the EPA is not in any way endorsing the supply or use of this substance or guaranteeing that the substance will confer benefit.

The conditions set out in this order are designed to minimise the risk of potential harm to the environment, human health or agriculture, although neither this order nor the accompanying exemption guarantee that the environment, human health or agriculture will not be harmed.

Any person or entity which supplies excavated natural material should assess whether the material is fit for the purpose the material is proposed to be used for, and whether this use may cause harm. The supplier may need to seek expert engineering or technical advice.

Regardless of any exemption or order provided by the EPA, the person who causes or permits the application of the substance to land must ensure that the action is lawful and consistent with any other legislative requirements including, if applicable, any development consent(s) for managing operations on the site(s).

The supply of excavated natural material remains subject to other relevant environmental regulations in the POEO Act and Waste Regulation. For example, a person who pollutes land (s. 142A) or water (s. 120), or causes air pollution through the emission of odours (s. 126), or does not meet the special requirements for asbestos waste (Part 7 of the Waste Regulation), regardless of this order, is guilty of an offence and subject to prosecution.

This order does not alter the requirements of any other relevant legislation that must be met in supplying this material, including for example, the need to prepare a Safety Data Sheet. Failure to comply with the conditions of this order constitutes an offence under clause 93 of the Waste Regulation.

# Examples

#### In situ sampling at depth

#### Example 1.

If the proposed depth of ENM excavation is between 1 m bgl and 1.4 m bgl, then:

- 1 sample on surface (as per the requirements of Table 2).
- 1 sample at 1 m bgl.
- No further depth sampling after 1 m bgl, unless required under section 4.4.4.

#### Example 2.

If the proposed depth of ENM excavation is at 1.75 m bgl, then:

- 1 sample on surface (as per the requirements of Table 2).
- 1 sample at 1 m bgl.
- 1 sample at 1.75 m bgl.
- No further depth sampling after 1.75 m bgl, unless required under section 4.4.4.

### Example 3.

If the proposed depth of ENM excavation is at 2.25 m bgl, then:

- 1 sample on surface (as per the requirements of Table 2).
- 1 sample at 1 m bgl.
- 1 sample at 2 m bgl.
- No further depth sampling after 2 m bgl, unless required under section 4.4.4.



# Appendix D – Proposed Check Sampling Densities



#### Table A1. Source Site Check Sampling and Analytical Requirements for ENM, VENM and SSRRM<sup>4</sup>

Filling/Material	Minimum sample number /	Minimum analyte suite	Additional Analysis Required <sup>2,3</sup>
	$0m^3 - 15\ 000m^3 - 3\ samples$	Heavy metals <sup>2</sup>	
	$15,000m^{2} = 5 \text{ sumples}$	PAHs	
	15,00111° – 50,00011° – 5 sample	TRH	
		BTEX	
		PCBs	
	For sites >50,000 m <sup>3</sup> and for sites	OCP / OPPs	Any contaminant considered to
	which are irregular in shape (i.e.,	Asbestos (if present	be potentially present in the
VENM	not a square site, a sampling	above VENM layer)	material based on site
	program will be adopted on a case-	Field Oxidation and/or	information
	by-case basis. With approval from	Sulphur (CBS) (if within	
	of validation in such singumstances	area of Potential Acid	
	of valuation in such circumstances.	Sulfate Soils)	
		рН	
		PFAS	
		Heavy metals <sup>2</sup>	
		ΡΔΗs	
		TRH	
		BTEX	
		PCBs	
	30% of sampling density outlined	OCP / OPPs	Any contaminant considered to
ENM	within the NSW <i>ENM Order 2014</i> –	Asbestos	be potentially present in the
	refer to Appendix B	Foreign materials	information
		bitumen, paper.	information
		cloth, paint and wood)	
		Field oxidation and/or	
		CRS (if within area of	
		Potential Acid Sulfate	
		SOIIS)	
	Stockpiles: 30% of sampling density	Heavy metals <sup>2</sup>	
	outlined within the VIC EPA's	PAHs	
	Industrial Waste Resource	TRH	
	Guidelines – Soil Sampling	BTEX	
	(IWRG702-2009)	PCBs	<b>.</b>
	In citu: 20% of compling doncity	OCP / OPPs	Any contaminant considered to
SSRRM	outlined within the NSW FPA's	Aspesios Field oxidation and/or	material based on site
	(2022), Contaminated Land	Chromium Reducible	information
	Guidelines, Sampling design part 1 –	Sulfur (CRS)	
	application.	(if within area of	
		Potential Acid Sulfate	
		Soils)	
SSRRM	refer to <b>Appendix B</b> Stockpiles: 30% of sampling density outlined within the VIC <i>EPA's</i> <i>Industrial Waste Resource</i> <i>Guidelines – Soil Sampling</i> (IWRG702-2009) In-situ: 30% of sampling density outlined within the NSW EPA's (2022), <i>Contaminated Land</i> <i>Guidelines, Sampling design part 1 –</i> <i>application.</i>	Foreign materials (rubber, plastic, bitumen, paper, cloth, paint and wood) Field oxidation and/or CRS (if within area of Potential Acid Sulfate Soils) PFAS Heavy metals <sup>2</sup> PAHs TRH BTEX PCBs OCP / OPPs Asbestos Field oxidation and/or Chromium Reducible Sulfur (CRS) (if within area of Potential Acid Sulfate Soils) PFAS	material based on site information Any contaminant considered to be potentially present in the material based on site information

#### Note:

<sup>1</sup> not all samples necessarily require testing for all analytes.

<sup>2</sup> Heavy metals = arsenic, cadmium, chromium, copper, lead, mercury, nickel and zinc. BTEX = benzene, toluene, ethylbenzene, xylenes. OCPs = organochlorine pesticides (a scheduled chemical). OPPs = organophosphate pesticides. PAH = polycyclic aromatic hydrocarbons. PCBs = polychlorinated biphenyls. TRH = total recoverable hydrocarbons. CRS = Chromium Reducible Sulfur. PFAS = per- and poly-fluoroalkyl substances.

<sup>3</sup> Based on advice from a suitably qualified environmental consultant.

<sup>4</sup> For special alignments such as large infrastructure tunnels, Land Owners Group – East (LOG-E) and their nominated Environmental Consultant will consider the sampling density on a case-by-case basis.



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# Appendix M Salinity Management Plan



# **Salinity Management Plan**

Mamre Road, Abbotts Road and Aldington Road Upgrade, Kemps

# **Creek NSW**

Prepared for: Land Owners Group – East c/o AT&L

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# Contents

1	Intr	oduction and Background	L
	1.1	Introduction	L
	1.2	Developmental Consent	L
	1.3	Proposed Development	L
	1.4	Objectives	2
2	Site	Identification	2
3	Site	Condition and Surrounding Environment	3
	3.1	Geology	3
	3.1.1	Proposed Development	3
	3.1.2	MAIU Staging	3
	3.1.3	AARU Phase I	3
	3.1.4	AARU Phase II	3
	3.2	Topography	3
	3.3	Hydrology and hydrogeology	3
	3.4	Naturally occurring contaminants	1
4	Curi	rent Salinity Conditions	ł
	4.1	Salinity Mapping	1
	4.2	Historical Environmental Investigations	1
	4.2.1 Kem	ADE Consulting Group NSW (2022a), Geotechnical Investigation Report, Proposed Mamre Road Upgrade ps Creek NSW 2178	, 1
	4.2.2 Road	ADE Consulting Group NSW (2022b), Geotechnical Investigation Report, Proposed Abbotts and Aldington I Upgrade, Kemps Creek NSW 2178	ו 5
	4.3	Sodic Soils	5
5	Mar	nagement Activities and Procedures	5
	5.1	Management Strategies	õ
	5.1.1	Bulk Earthworks	õ
	5.1.2	Gardens and Landscaped Areas	7
	5.1.3	Roads and Footpaths	7
	5.1.4	Surface Water, Stormwater and Drainage	3
	5.1.5	Durability of Concrete Structures in Contact with the Ground	3
	5.2	Importation and Sampling Requirements	3
	5.2.1	Importation Requirements	3
	5.2.2	Minimum Sampling Requirements	)
	5.3	Contingency/Incident Response Protocol	)
6	Imp	lementation, Monitoring and Review10	)
	6.1	Management Structure and Responsibilities	)
	6.2	Worker and Contractor Training	)
	6.3	Audit and Review Process	1



7	Conclusion and Closure	11
8	Bibliography	12
Арр	endix A – Site Figure	13

#### Tables

Table 1. Summary of site identification details and information	2
Table 2. Gypsum Application Rate with respect to soil ESP.	6
Table 3. Key Roles and Responsibilities	.10



# **1** Introduction and Background

### 1.1 Introduction

ADE Consulting Group Pty Ltd (ADE) has been requested by Land Owners Group – East (LOG-E) (the Client) to provide a salinity management plan (SMP) for the Mamre Road, Abbotts Road and Aldington Road Upgrade (AARU and MAIU) project located within Kemps Creek, New South Wales (NSW) ('the site'). The location of the site and the physical boundaries which apply to this SMP are defined in Figure 1, **Appendix A – Figures**.

A previous salinity assessment was completed as a part of a geotechnical investigation by ADE in 2022 (ADE, 2022a), the results of which will form the SMP. This SMP will outline the existing site conditions, assess potential impacts to construction and the environment and outline the key strategies for managing potential risks associated with urban salinity.

This plan is considered to involve 'passive' management protocols and is considered to be supplemental document which must be read in conjunction with the construction environmental management plan (CEMP).

### **1.2** Developmental Consent

A development application (DA) is a formal application for development that requires consent under the NSW Environmental Planning and Assessment Act 1979 (EP&A Act). The conditions of Development Consent (SSD 10479 200A and SSD-9138102) include:

• (D38) – The Applicant must prepare a Salinity Management Plan, which must form part of the CEMP, that addresses all aspects of the development plan. The Applicant must implement the most recent revision of the Salinity Management Plan for the duration of construction.

This SMP has been prepared to accompany a CEMP for the MOD to State Significant Development (SSD-10479 and SSD-9138102) occurring at the site. The proposed development is considered to be an ancillary requirement to facilitate the client's DA.

### **1.3 Proposed Development**

It is understood that the proposed road upgrade will involve upgrading a 4 kilometre (km) stretch of road from the intersection of Mamre Road and Abbotts Road, extending up Aldington Road, Kemps Creek. The road upgrade is expected to involve bulk earthwork activities including cut and fill activities and road widening along which may result in the excavation of soils impacted by urban salinity.

As per information provided geotechnical aspects (ADE, 2022a), earthworks and subgrade preparation should be carried out in accordance with the Road Controlling Authority's (TfNSW) specification and Australian Standard 3798-2007. However, a general procedure is provided below for the proposed upgrade and widening areas.

Fill materials, topsoil and unsuitable materials should be removed from the site.

- Excavated materials for reuse as engineering fill should be carefully stockpiled separately.
- After excavation, the exposed surface should be treated to not vary more than 2% from the Optimum Moisture Content (OMC) and then compacted using a vibrating compactor of at least 12 tonnes to the design density.
- The exposed surface should be tested with appropriate density testing and proof rolling should be carried out under the supervision of a geotechnical engineer with a smooth drum roller.
- Any soft or loose areas should be identified and excavated i.e., ripped and recompacted or otherwise replaced with appropriate imported fill material.



Every layer of fill area and the final surface in cut areas should be suitably compacted to the required design parameters. Recommendations for fill layer compaction are listed below:

- Fill material moisture content should be treated to ±2% OMC of the material.
- All placed material should have a minimum density ratio of 98% of the maximum dry density.
- Placement of loose thickness of fill layers should not exceed 200 mm during compaction.

Imported materials for fill layers should be clean (i.e., free of contaminants, deleterious or organic material), free of oversize material, of suitable moisture content, and otherwise satisfy Australian Standard AS 3798-2007 and the Road Controlling Authorities specification.

### 1.4 Objectives

The objective of the SMP is to outline the outline the management protocols required to manage urban salinity and minimise its impact on the proposed development. All works are to conform with the Western Sydney Regional Organisation of Councils Ltd (2023). *Western Sydney Salinity Code of Practice March 2003 (amended January 2004)*.

# 2 Site Identification

The site is located within nominated areas on Mamre Road, Abbotts Road and Aldington Road, Kemps Creek NSW. The proposed development is expected to encompass a length of 4 km and is situated within the Penrith City Council Local Government Area (LGA).

Site Project Details			
Site Owner:	Multiple owners		
Site Address:	Mamre Road, Abbotts Road and Aldington Road, Kemps Creek NSW		
Site Area:	~8.9 ha		
Local Government Authority:	Penrith City Council		
Title Identification:	Part of Lots 1-2 in DP 250002, Lot 10 in DP 1296455, Lots 141-142 in DP 1033686, Lots 8-10 and 13-18 in DP 253503, Lots 20-28 in DP 255560, lots 30-37 in DP 258949m Lots 38 and 41-42 in DP 708347 and DP 1033686.		
Current Land Zoning:	'IN1 – General Industrial'		
Local Environmental Plan:	Penrith City Council Local Environmental Plan 2010		
Current Land Use:	<ul> <li>Road reserves:</li> <li>From the western end of Abbotts Road to the Abbotts / Aldington intersection.</li> <li>From the Abbotts/Aldington intersection continuing north along Aldington Road.</li> </ul>		

**Table 1.** Summary of site identification details and information.


## **3** Site Condition and Surrounding Environment

## 3.1 Geology

## 3.1.1 Proposed Development

The site comprises public road reserves and private land across multiple residential properties located at Abbotts and Aldington Road, Kemps Creek, NSW (refer to **Appendix A**).

The site comprises Abbotts Road reserve from the western end to Abbotts / Aldington intersection, Aldington Road reserve from the junction to the north, and 5-10 m extension to private land of both roadsides. The total route length of estimated at 4 km.

## 3.1.2 MAIU Staging

The site lies on the western side of the Sydney Basin before the Blue Mountains. The Penrith 1:100 000 Geological series sheet 9030 map reported in Geotechnical investigation Report (ADE, 2022a) indicated that the site overlies Triassic period Bringelly Shale (Rwb). The Bringelly Shale is described as shale and carbonaceous claystone, claystone, laminate, fine to medium-grained lithic sandstone, rare coal, and tuff.

The border of an area of Quaternary period Alluvial sediments (Qal) lies approximately 100 m west of Mamre Road and 350 m east of Aldington Road. These sediments typically comprise fine-grained sand, silt, clay, alluvial & estuarine sediments. To the west the Kemps Creek tributary of South Creek flows into the Hawkesbury River while Ropes Creek flows north to South Creek.

## 3.1.3 AARU Phase I

Reference to the 1:100,000 scale Penrith Soil Landscape Series Sheet 9030 map, indicates that Abbotts Road lies in the Blacktown (bt) soil landscape group comprising gently undulating rises on Wianamatta Group Shales, broad rounded crests, and ridges with gently inclined slopes.

## 3.1.4 AARU Phase II

Aldington Road mostly lies in the Luddenham (lu) soil landscape group (which generally comprises undulating to rolling low hills on Wianamatta Group Shales and extensively cleared tall open forest) and occasionally lies on the border between the Blacktown and Luddenham soil landscape groups. Approx. 50-100 m to the east of Mamre Road lies Kemps Creek and the south creek (sc) soil landscape group comprising floodplains, valley flats and drainage depressions of channels on the Cumberland Plain. Ropes Creek lies approx. 1.5 km east of the south end of Aldington Road and 500m east at the northern end.

## 3.2 Topography

The site has a moderate to steep sloping surface ranging from 44-74 m Australian Height Datum (AHD). The lowest point (44 m) on-site is in the southwestern portion of the site, with the highest point found at the northern part of the site. As such, the site is considered to have a moderate to steep gradient towards the southwest. Based on the data collected during the Geological Investigation (ADE, 2022), two samples exhibited high sodicity levels. This highlights the importance of recognising that high sodicity can lead to surface pooling if adequate drainage measures are not implemented.

## 3.3 Hydrology and hydrogeology

No surface water body was identified on-site. The closest surface water body to the site is Kemps Creek. The closest portion of Kemps Creek is found approximately 350 m west of the Site. Multiple surface water drains were noted to be scattered throughout the various properties on-site, predominantly within artificial drainage lines, or along the road and curbing.



Due to the topography of the site and proximity to Kemps Creek, it is inferred that the local groundwater flow is in a south westerly direction towards Kemps Creek, a freshwater ecological system. As the future use of the site will primarily feature a local road upgrade, a moderate to high level of surface water run-off is expected to be captured within local stormwater systems which commonly discharge into local ecological communities.

Geotechnical investigations (ADE, 2022a) indicated groundwater was encountered at depths of 1.5 to 2.1 meters below ground level (BGL). This suggests that groundwater interactions may occur if bulk earthworks extend to these depths.

High sodicity levels in some soil samples further emphasise the need for proper drainage to prevent surface pooling. Considering these factors, there is a potential for groundwater interactions, especially in areas with perched or raised water tables. These interactions should be carefully managed to avoid negative impacts on both the construction process and the surrounding ecological systems.

## 3.4 Naturally occurring contaminants

A review of the Atlas of Australian Acid Sulfate Soils outlined within the Land Insight Report (ADE, 2022b) identified the site situated within a 'extremely low' (1-5%) probability of encountering acid sulfate soils. The site is however, situated within an area which is classified as having a 'moderate hazard or risk' for dryland salinity to occur for years up to and including 2050 as per the National Assessment for Dryland Salinity. This is discussed within the Section 4.

## **4** Current Salinity Conditions

## 4.1 Salinity Mapping

From the map of salinity potential in Western Sydney (Department of Infrastructure, Planning and Natural Resources, 2002), the site has an inferred 'moderate' salinity potential. It is noted that the mapping is based on soil type, surface level and general groundwater considerations and, as such is approximate only.

Based on the salinity map reported in ADE's Abbotts Aldington Geotech investigation report (ADE, 2022a) it is noted that the proximity to Kemps Creek and Ropes Creek is not determined to be a high-risk area.

## 4.2 Historical Environmental Investigations

# 4.2.1 ADE Consulting Group NSW (2022a), Geotechnical Investigation Report, Proposed Mamre Road Upgrade, Kemps Creek NSW 2178.

In September 2022, ADE undertook a Geotechnical Investigation for proposed road upgrade and widening works for the Mamre Road and Abbotts Road intersection, along Mamre Road extending to approximately 350m north and 650m south of the intersection and approximately 80 m along Abbotts Road. The investigation was commissioned by Land Owners Group-EAST.

The fieldwork comprised drilling of 10 boreholes identified as BH01 to BH10 inclusive. The drilling was generally carried out by a 5 tonne (t) excavator with 200mm diameter auger attachment with extensions. Based on the data and evidence collected during the investigation, the following conclusions were drawn regarding the salinity, aggressivity and sodicity of the site:

- Of the 10 samples collected, 7 were classified as non-saline and 3 as slightly saline.
- Soils were identified to be non-aggressive to concrete and non-aggressive to steel.
- One sample was analysed for sodicity (BH03/1.0-1.1m), which was characterized as sodic.



- The salinity, aggressivity, and sodicity levels are considered naturally occurring features of the local landscape. Provided that appropriate management techniques are utilised, they are not considered to be significant impediments to the proposed development.
- Topsoils observed on site ranged from 0.15-0.3 m BGL, which consisted mostly of silty clays and medium clays with an estimated saturated hydraulic conductivity of 0.36 to 36 mm/hr.
- The underlying natural strata consisted of medium to heavy clays with an estimated saturated hydraulic conductivity of 0.0036 to 3.6 mm/hr.
- Based on a review of the available information, ADE did not consider that the proposed development will adversely impact soil salinity and sodicity.

## 4.2.2 ADE Consulting Group NSW (2022b), Geotechnical Investigation Report, Proposed Abbotts and Aldington Road Upgrade, Kemps Creek NSW 2178.

In October 2022, ADE undertook a Geotechnical Investigation for proposed road upgrade and widening works for Abbotts Road (CH 0.0 – CH 447.527) and Aldington Road from its south connection to Abbotts Road to 74 Aldington Road, Kemps Creek (approx. CH 0.0 - CH 2250). The existing culverts were also proposed to be upgraded at locations on Aldington Road. The investigation was commissioned by Land Owners Group-EAST.

The fieldwork comprised drilling of 15 boreholes identified as BH11 to BH25 inclusive. The drilling was generally carried out by a 5-tonne excavator with 300mm diameter auger attachment with extensions and a tracked drill rig with 100m diameter auger was used for the boreholes adjacent to proposed culverts (BH15-16, BH21-24 inclusive).

Standard Penetration Tests (SPT) were undertaken during drilling of BH15, BH21-24 inclusive, in accordance with Australian Standard AS 1289.6.3.1-2004 at regular intervals of 1.5m to provide an assessment of soil strength. The tests were completed to help correlate the soil consistency and obtain soil samples for laboratory testing.

Piezometric wells were installed within boreholes BH23 and BH24 to a maximum depth of 5.3m below ground level (m BGL) to monitor groundwater levels. Installation was carried out using a PVC standpipe at the completion of the borehole drilling.

Based on the data and evidence collected during the investigation, the following conclusions were drawn regarding the salinity, aggressivity and sodicity of the site:

- Of the 17 samples collected, 5 were classified as non-saline, 9 as slightly saline and 3 as moderately saline.
- Soils were identified to be non-aggressive to concrete and non-aggressive to steel.
- Two samples were analysed for sodicity (BH17/0.4-0.5m and BH24/0.4-0.5m), with both characterized as highly sodic.
- The salinity, aggressivity, and sodicity levels are considered naturally occurring features of the local landscape. Provided that appropriate management techniques are utilised, they are not considered to be significant impediments to the proposed development.
- Topsoils observed on site ranged from 0.1-0.3 m BGL, which consisted mostly of silty clays and medium clays with an estimated saturated hydraulic conductivity of 0.36 to 36 mm/hr.
- The underlying natural strata consisted of medium to heavy clays with an estimated saturated hydraulic conductivity of 0.0036 to 3.6 mm/hr.
- Based on a review of the available information, ADE did not consider that the proposed development will adversely impact soil salinity and sodicity.

## 4.3 Sodic Soils

Sodicity is expressed as the amount of exchangeable sodium as a percentage of the Cation Exchange Capacity (CEC), or Exchangeable Sodium Percentage (ESP %). Sodic soils may be affected by very severe surface crusting, very low infiltration and hydraulic conductivity, very hard and dense subsoils as well as high susceptibility to gully and tunnel erosion. Sodicity also affects the shrink – swell properties of a soil.



Based on the Geotechnical Investigation by ADE (ADE, 2022a), 2 samples were analysed for sodicity (BH17/0.4-0.5m and BH24/0.4-0.5m), with both characterized as highly sodic. Given the high sodic conditions detected in above mentioned locations, it is important to recognise the potential for excessive swelling of clays when wet, reduced water infiltration, and subsequent waterlogging issues. These conditions can result in the deposition of surface salts, which further degrade soil quality.

To mitigate these issues, additional soil conditioning may be required. For example, applying gypsum can help displace sodium ions and improve soil structure, thereby enhancing water infiltration and reducing waterlogging (see **Table 2**). Proper soil management practices, including the use of soil conditioners, are essential to maintain soil health and support the intended land use.

## Table 2. Gypsum Application Rate with respect to soil ESP.

Enchantable Sodium percentage (ESP%) of cut area	Gypsum application rate (t/ha)
Greater than 5, less than 10	2-5
Greater than 10	5

## **5** Management Activities and Procedures

This SMP addresses the components of the proposed development at construction stage for the permanent works.

Salinity management regarding the following development components are provided in the following sections:

- Earthworks.
- Imported soil.
- Gardens and landscaped areas.
- Roads and footpaths.
- Surface water, stormwater and drainage.
- Durability of concrete structures in contact with the ground.
- Durability of steel structures in contact with the ground.

## 5.1 Management Strategies

## 5.1.1 Bulk Earthworks

As per earthworks plans provided by the client (ADE, 2022a and 2022b) the construction of the earthworks should in general consider the following strategies:

- Importation of soil as per **Section 5.2** of this report.
- Vegetation cover should be estimated and maintained on permanent batters upon completion to control erosion.
- The final surface of all areas of the development should be graded to prevent the ponding of surface water.
- Erosion control of temporary batters, stockpiles and disturbed areas should be planned prior to undertaking the earthworks and implemented during the earthworks. Consideration should be given to:
  - Grading and sealing partially completed surfaces.
  - Installation of clearly visible fencing and traffic control measures to prevent unnecessary trafficking of areas and ensuring site disturbance.
  - Establishing set vehicular access points and roads.
  - Protecting stockpiles (temporary vegetation or mulching) where these are to be left in place for long durations.



- Managing disturbance of the soil focus on capping of the soil surface, both exposed when excavated and filling, with more permeable material which will prevent ponding and reduce capillary rise. This will also act as a drainage layer and reduce potential erosion.
- Minimising cut and fill where possible use excavation soils in fill areas with similar salinity characteristics and place back in the original order.
- Minimising water infiltration ensuring cut and fill areas are compacted well.
- Maintain vegetation where possible and plant salt tolerant species plants will also reduce soil erosion and should be considered in areas of disturbance soil.
- Ensure the site is well drained.
- Sediment control shall be implemented by means of sediment traps and silt fencing where considered necessary.
- Dust suppression using water carts will avoid over-watering and only use sufficient water to manage dust rise (i.e., avoid surface ponding).
- Water used for construction purposes (e.g. to achieve adequate compaction rates) will be applied sparingly.

## 5.1.2 Gardens and Landscaped Areas

The proposed development will result in the majority of the site comprising hardstand roads and footpaths. Garden and landscaped areas are likely to be limited to nominated areas only, such as the road verge. The construction of the gardens and landscaped areas should consider the following:

- Irrigation of rehabilitated or landscaped areas will utilize low-water-use fixtures such as drippers, subsurface irrigation or similar. Water will be applied sparingly and only in quantities sufficient to promote plant growth.
  - **Note:** given the high sodic conditions detected in site, it is important to recognise the potential for excessive swelling of clays when wet, reduced water infiltration, and subsequent waterlogging issues. These conditions can result in reduced water infiltration thus results in waterlogging and poor drainage, which further degrade soil quality.
- Subsoil moisture will be physically checked (through visual observation) regularly during irrigation to ensure watering rates are not excessive.
- Selection of plant species should consider the soil conditions, including moderate salinity, relatively
  poor fertility, and clayey low permeability soil profiles. An indicative species list is provided in Section
  11.3 of the Western Sydney Salinity Code of Practice (2004). Promotion of successful revegetation is
  likely to require use of nutrient rich topsoil. Saline topsoils should not be imported to site.
  - For saline soils, the pH range can vary, but typically, saline soils are alkaline due to the presence of soluble salts:
    - Moderately saline Soils: pH ranges from 7.5 to 8.5
    - Strongly Saline Soils: pH ranges from 8.5 to 10.
  - Potential for water logging should be minimised by:
    - Adopting plant species with minimal watering requirements.
    - Adopting 'waterwise' gardening principles.
    - Minimising use of potable water in landscaped areas.
    - Properly designed and implemented irrigation systems.
    - o Establishment of perennial species and deep-rooted trees.

## 5.1.3 Roads and Footpaths

The construction of roads and footpaths should consider the following measures:

• Roads and footpaths surfaces should be graded, and the grades maintained at all times to prevent ponding of surface water at locations where this can result in infiltration into the underlying soils (e.g. pavement joints).



- Connections between the roads and footpath surfaces and the surface water and stormwater drainage infrastructure should be designed, constructed, and maintained to restrict infiltration into underlying soils.
- Services that are to be located below the roads and footpath surfaces should be installed, where practical, at the time of construction.

## 5.1.4 Surface Water, Stormwater and Drainage

The design and construction of surface water, stormwater and drainage measures should consider the following:

- Disturbance of natural drainage patterns should be reduced. Where these are disturbed or altered appropriate artificial drainage should be installed. Swales and basins will be incorporated as temporary measures to minimise disturbance to natural drainage patterns.
- Stormwater and surface water should be managed to restrict infiltration. Two lined on-site detention basins will collect stormwater.
- Temporary water retaining structures used during construction should be managed to restrict infiltration. Basins will collect runoff to manage sediment discharge.
- Stormwater and surface water infrastructure should be designed and constructed to minimise the likelihood of leakage. Two on-site detention basins will collect stormwater to control runoff.
- Surface water runoff should be directed around all exposed surfaces, temporary stockpiles and landscaped areas.
- Swales and basins will be incorporated as temporary erosion and sediment control (ESC) measures to direct surface water around all exposed and temporary stockpiles.
- Disturbance to the natural hydrological system shall be minimised by maintaining good surface drainage and reducing water logging on the site.
- Groundwater recharge is to be minimised to the extent it does not adversely impact groundwater dependent ecosystems downstream.
- Trunk drainage channels shall be lined were subject to frequent inundation in accordance with Sydney Water requirements.

## 5.1.5 Durability of Concrete Structures in Contact with the Ground

In designing structural concrete elements in contact with the ground the design should consider the results of the salinity assessment and the durability requirements in AS2159:2009 Piling "Design and Installation" and AS3600:2018 "Concrete Structures".

Both these standards provide guidance on minimum concrete grade/strength and minimum cover requirements. Based on the salinity and aggressivity test results (ADE, 2022c), it is recommended:

- The design of structural concrete members in contact with the ground (excluding piles) adopt a "A2" exposure classification as defined in AS3600:2009.
- The design of concrete cast in situ piles adopt a "mild" classification as defined in AS2159:2009.

## 5.2 Importation and Sampling Requirements

## 5.2.1 Importation Requirements

It may be required to import soil onto site. All soil/landscaping materials which are imported to site for application within the site boundaries must be either classified as Virgin Excavated Material (VENM) or meet an NSW approved resource recovery order. Materials to be imported to site should be assessed for suitability for the intended use. Very high (>1.6 dS/m) to high saline (0.8-1.6 dS/m) soils shall not be imported to site.



## 5.2.2 Minimum Sampling Requirements

Salinity testing shall be undertaken on imported soil and in accordance with Department of Land and Water Conservation (DLWC) (2002), *Site Investigations for Urban Salinity*. These guidelines are essential for ensuring the suitability of imported soil and preventing the introduction of soil with excessively high salinity levels onto the site. Material with electrical conductivity (ECe) > 8 decisiemens per cm (dS/cm); i.e. very high to high saline shall not be imported.

When conducting salinity testing, it is crucial to employ comprehensive sampling techniques that capture the full range of salinity variations within the soil profile. This includes sampling at multiple depths and locations across the proposed importation area to obtain representative samples that accurately reflect the overall salinity characteristics of the soil.

The DLWC guidelines, although valuable, may lack specificity regarding the exact sampling requirements for salinity testing. Therefore, it is recommended to supplement these guidelines with best practices in soil sampling and analysis. This may involve:

- 1. **Depth-Specific Sampling:** Collecting soil samples at various depths, especially in areas where the soil profile exhibits significant changes in salinity levels. This depth-specific sampling provides a more comprehensive understanding of salinity variations within the soil profile.
- 2. **Spatial Sampling:** Ensuring that soil samples are collected from multiple locations across the importation area, considering factors such as topography, soil type variability, and historical land use practices. Spatially distributed sampling helps capture spatial heterogeneity in salinity distribution.
- 3. Laboratory Analysis: Utilizing accredited laboratories with expertise in soil salinity analysis. The laboratory analysis should include measurements of electrical conductivity (ECe) to accurately quantify the salinity levels in the soil samples.
- 4. **Quality Assurance/Quality Control (QA/QC):** Implementing rigorous QA/QC measures during sample collection, handling, transportation, and analysis to minimize potential errors and ensure data reliability.

By combining the DLWC guidelines with industry best practices in soil sampling and analysis, stakeholders can effectively assess and manage soil salinity risks associated with imported soil, thereby promoting sustainable land use practices and environmental stewardship.

## 5.3 Contingency/Incident Response Protocol

As a contingency if unexpected finds, such as visible crystal salts on surface or future signs of concrete degradation, the following steps can be followed as an incident response protocol:

- Notify site owner.
- Site owner to contact environmental consultant.
- Consultant to inspect site and advise on further controls of protocols required.



## 6 Implementation, Monitoring and Review

## 6.1 Management Structure and Responsibilities

Table 3 outlines the main parties involved and responsible for the application and implementation of this SMP.

Role	Responsibility			
Site Owner	The site owner must ensure that the SMP is attached to and implemented as a sub-management plan to the CEMP and is transferred to the site manager for implementation and review.			
	The site manager must implement all administrative and physical controls to ensure that any work being carried out in the site are as per the SMP. The site manager must provide a copy of this SMP to any worker or contractor who may have reason to disturb or exacerbate the current salinity conditions.			
Site Manager	The site manager must ensure that all workers/contractors operating within the site are aware of this SMP and are inducted to an appropriate level of environmental and emergency procedures. The site manager must demonstrate that any workers/contractors working within the site are fully trained in the management of the risks and hazards associated with urban salinity.			
	The site manager is responsible for ensuring all works are undertaken as per the CEMP, SMP and other relevant sub-management plans.			
Site Workers/Contractors	Site workers/contractors who undertake intrusive works at the site must review this SMP and implement the procedures provided within <b>Section 5</b> of this report. It is the responsibility of all workers/contractors to raise any safety concerns or report any unexpected finds to the site manager upon identification.			
	The environmental consultant must ensure that all supervision, sampling and/or investigative methodologies are completed in accordance with relevant legislation and codes of practice.			
Environmental Consultant	The environmental consultant is responsible for reviewing and updating the SMP under certain circumstances as deemed necessary by the site manager. Reviewing and updating the SMP will be required during changes in land use or in response to unexpected finds. All amendments and/or any environmental reports shall be issued to the site manager in a timely manner.			

Table 3. Key Roles and Responsibilities.

## 6.2 Worker and Contractor Training

All personnel and contractors engaged in intrusive activities at the site must undergo comprehensive training to understand their roles and responsibilities as outlined within the SMP. This training should cover environmental responsibilities and associated risks, particularly when dealing with potentially contaminated soils which may represent a salinity risk. Training requirements include:

- Site induction.
- Understanding the SMP, including how to identify indicators of potential urban salinity (e.g., surface salt deposits).
- Environmental emergency response training.
- Specific environmental training tailored to job roles.



Records of all training sessions must be maintained properly. The site manager is responsible for identifying the need for additional or updated training and ensuring its implementation. Workers should be briefed on the minimum PPE requirements for the project.

## 6.3 Audit and Review Process

The SMP is a dynamic document that requires periodic review and amendments to align with site changes and evolving legislative requirements, enhancing its effectiveness. It remains applicable as long as potential salinity risks exist on-site.

The site manager, along with a suitably qualified individual (e.g., environmental consultant), must conduct an SMP review at least once every five years or in response to specific triggers, including:

- Changes in land use.
- Identification of significant environmental or health and safety issues.
- Discovery of unexpected incidents or finds.
- Completion of an environmental audit.

## 7 Conclusion and Closure

On the basis that the area has been classified low risk, the nature of the development and following the incorporating of the management strategies outlined within this document, further monitoring or remediation of identified issues associated with urban salinity are not considered warranted.

It is considered that the implementation of this SMP within the overall site CEMP will ensure impacts of this development on urban salinity will be minimised to a safe level.



## 8 Bibliography

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- Department of Land and Water Conservations (2002), Site Investigations for Urban Salinity.
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## Appendix A – Site Figure









## Further details regarding ADE's services are available via

📩 Info@ade.group 🛛 🌐 www.ade.group

## ADE Consulting Group Pty Ltd

## Sydney

Unit 6/7 Millenium Court, Silverwater, NSW 2128 Australia 1300 796 922

## ADE Consulting Group (QLD) Pty Ltd

Brisbane 10/53 Metroplex Avenue, Murarrie QLD 4172, Australia. 1300 796 922

## Newcastle

Unit 9/103 Glenwood Drive Thornton, NSW 2322, Australia 1300 796 922

ADE Consulting Group (VIC) Pty Ltd Melbourne Unit 4/95 Salmon Street Port Melbourne, VIC 3207, Australia 1300 796 922

# **Appendix N Consultation Records**

# MAMRE-ABBOTTS-ALDINGTON ROAD UPGRADES PROJECT

#### **Community Introductory Letter**

# Important information for local residents regarding the Mamre-Abbotts-Aldington Road Upgrades

#### Dear Resident,

We are pleased to inform you about the upcoming Mamre-Abbotts-Aldington Road Upgrades, a critical infrastructure project that will greatly improve road safety, reduce traffic congestion, and enhance transport efficiency in your area. This important upgrade is a key component of the broader development within the Mamre Road Precinct (MRP), a rapidly expanding industrial and employment hub in Western Sydney. These upgrades will not only improve daily commutes but are also expected to generate significant economic benefits, creating approximately 5,200 construction jobs and 17,000 ongoing jobs for the local community.

#### What this means for you

The Mamre-Abbotts-Aldington Road Upgrades will involve widening the lanes, upgrading traffic signals, and improving pedestrian crossings at key intersections, ensuring safer and smoother journeys for all road users, including local residents, cyclists and pedestrians. As part of the wider MRP development, these upgrades will also support local businesses and enhance freight and logistics operations.

#### **Project timeline and impact**

The project will be delivered in three phases and is expected to take up to 24 months to complete. Early works began in September 2024, with civil works, including temporary construction, commencing on Monday 6<sup>th</sup> January 2025.

During this time, there will be changes to local traffic conditions, including temporary road diversions, and lane closures. We understand that construction can be disruptive, and we are committed to minimising these impacts as much as possible. A range of traffic management and environmental measures will be implemented to ensure the safety of all residents, road users, and the local environment throughout the construction period.

We will be providing regular updates on the progress of the project, including details of roadworks and any traffic changes that may affect your daily routine.

#### Stay informed and engaged

To ensure that you remain fully informed throughout the duration of the project, we encourage you to visit our dedicated project website at <u>www.mamrealdingtonupgrades.com</u>. Here, you will find the latest updates, including information on construction milestones, traffic diversions, and community events.

We also invite you to sign up for the project's mailing list through the website to receive timely notifications about upcoming works, traffic changes, and invitations to community information sessions. These sessions will provide

1800 960 071

# MAMRE-ABBOTTS-ALDINGTON ROAD UPGRADES PROJECT

you with the opportunity to learn more about the project and ask questions. We highly value community input and look forward to engaging with you throughout the course of the project.

#### Our commitment to you

We are committed to keeping you informed and addressing any queries you may have along the way. Should you have any questions or require further information about the project, please do not hesitate to reach out to our community engagement team via email on info@mamrealdingtonupgrades.com.au or by phone on 1800 960 071.

We are here to assist you and ensure that this important infrastructure upgrade is carried out with minimal disruption to your daily life.

We thank you for your patience and understanding during the construction period, and we look forward to staying connected with you as we deliver these vital improvements to your community.

#### Kind regards,

Mamre-Abbotts-Aldington Road Upgrades Engagement Team

# MAMRE-ABBOTTS-ALDINGTON ROAD UPGRADES PROJECT

Stakeholder Introductory Letter

## Important information regarding the Mamre-Abbotts-Aldington Road Upgrades

### Dear Stakeholder,

We are writing to provide you with important information regarding the Mamre-Abbotts-Aldington Road Upgrades, a critical infrastructure project designed to support the ongoing industrial redevelopment of the Mamre Road Precinct (MRP). This project will significantly enhance road capacity, improve traffic flow, and provide more efficient access to key industrial and logistics hubs in the area. As a stakeholder within this growing industrial zone, we understand how vital these upgrades are to your operations and the region's economic success.

The upgrades will involve widening key sections of the road, upgrading traffic signals, and improving intersections to better accommodate both freight and commuter traffic. The aim is to not only facilitate smoother transport and logistics operations but also to futureproof the road network to meet increasing demands as the precinct continues to expand. The project will be delivered in three phases and is expected to take up to 24 months to complete. Early works began in September 2024, with civil works, including temporary construction, commencing on Monday 6<sup>th</sup> January 2025.

As construction progresses, we recognise that there may be temporary disruptions to your transport routes, delivery schedules and overall access. We are working closely with all stakeholders to minimise these impacts where possible. Our commitment is to ensure that your operations experience minimal disruption, and we will keep you informed well in advance of any changes that may affect your business.

We will be providing regular updates on the project's progress, including key milestones, traffic changes, and upcoming works that may impact access routes. These updates will be shared directly with you.

We also encourage you to visit our dedicated project website, <u>www.mamrealdingtonupgrades.com</u>, where detailed information will be posted regularly to keep you, and the community informed throughout the project's duration.

We greatly value your role as a stakeholder in this important project and are committed to maintaining open lines of communication. Should you have any questions, concerns, or require additional information, please do not hesitate to reach out to our community engagement team at any time via email at

info@mamrealdingtonupgrades.com.au or speak to one of our engagement specialists on 1800 960 071. We are here to assist you and address any queries you may have to ensure that the project and your operations run as smoothly as possible.

We look forward to staying connected with you and appreciate your understanding and cooperation during this time.

### Kind regards,

Mamre-Abbotts-Aldington Road Upgrades Engagement Team



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-gld@atl.net.au ABN 96 130 882 405

09/09/2024

Attention to: **BAPS Shri Swaminarayan Mandir, NSW** 232 Aldington Road, Kemps Creek NSW 2178.

Dear Sir or Madam,

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TRNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

In order to construct the temporary signals, some temporary roadworks works need to be completed, which requires the restriction of the 'right in' and 'right out' movements for Abbotts Road, as shown in Figure 1.

This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services North Sydney i Parramatia | Brisbane | Melbourne Anternation - Anternation -





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@sirconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
RABURANT PATEL CHARMAN RAPE SWAMINARAYAN SAUSTHA AURTRALALITI)	230-242 ALDINGTON ROAD KEMPS CREEK NSW 2178	Reports	18/9/24

Yours sincerely,

Alex Lohrisch | Project Manager

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services Norm Symmey | Famametts | Engineer | Melbourne

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Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Emmaus Catholic College** 87-109 Bakers Lane, Kemps Creek NSW 2178.

Dear Sir or Madam,

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TfNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

In order to construct the temporary signals, some temporary roadworks works need to be completed, which requires the restriction of the 'right in' and 'right out' movements for Abbotts Road, as shown in Figure 1.

This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
Trustees of the Roman Catholic Church for the diocese of Parramatta	87-109 Bakers Lane Kemps Creek	3	19/09/2024

Yours sincerely,

Alex Lohrisch | Project Manager



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Property Owner** 1016-1028 Mamre Road, Kemps Creek NSW 2178.

Dear Resident(s)

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date

Yours sincerely,

Alex Lohrisch | Project Manager

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attal Suite Al Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qid@att.net.au ABN 96 130 882 405 WWW.alth.net.au

09 September 2024

Attention to: Property Owner

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Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405 www.atl.net.au

09 September 2024

Attention to: **Property Owner** 269 Aldington Road, Kemps Creek NSW 2178.

Dear Resident(s)

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

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Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
Maars Industrial Group Pty Ltd	269 Aldington Road, Kemps Creek	ter	03.10.24

Yours sincerely,

Alex Lohrisch | Project Manager



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Property Owner** 1 Abbotts Road, Kemps Creek NSW 2178.

Dear Resident(s)

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Landowner	Lot No. or Address	Signed	Date

Yours sincerely,

Alex Lohrisch | Project Manager



## **Heywood Cheung**

From: Sent:	Alasdair Cameron <alasdair.cameron@esr.com> Wednesday 4 September 2024 2:25 PM</alasdair.cameron@esr.com>	
To:	Alex Lohrisch; Peter Wark; Ellie Bargh	
Cc:	Richard Harris; Michaela Leerdam (Michaela.Leerdam@frasersproperty.com.au)	
Subject:	FW: Abbotts Road - Mamre Road intersection consultation.	

FYI

Alasdair Cameron | Infrastructure Consultant



ESR Australia & New Zealand Level 12, 135 King Street, Sydney 2000 | au.esr.com M +61 402 458 226 D +61 2 9506 1430 E Alasdair.Cameron@esr.com Follow us on LinkedIn This e-mail and any attached files are confidential and may be legally privileged or otherwise protected from disclosure. Any disclosure

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From: Carlo Callegari <carlocallegari25@gmail.com>
Sent: Wednesday, September 4, 2024 2:19 PM
To: Alasdair Cameron <Alasdair.Cameron@esr.com>
Subject: Re: Abbotts Road - Mamre Road intersection consultation.

## [\*\*EXTERNAL EMAIL\*\*]

Hello Alistair,

Thank-you for the explanation, it is a sensible approach during the period of construction of the Mamre Road/Abbotts Road intersection and I can confirm that both Galliano and Daniella Callegari of 287 Aldington Road Kemps Creek NSW 2178 have no objections.

Indeed, it would be useful to send a formal document in the mail to local residents as an additional reminder. I will ensure that guests and visitors of our family residence at 287 Aldington Road are also aware of this requirement.

Warm regards

Carlo

On Wed, 4 Sept 2024 at 10:08, Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>> wrote:

Dear Carlo,

Thanks for the time to discuss the proposed works with your father, Galliano Callegari(landowner).

As discussed, to facilitate the construction of the proposed Mamre/AbbottsRoad intersection we will be required to limit the traffic to left in and left out movements only for a period of 6 months from the start of construction which is targeted for October this year.

This would mean that if you wished to travel north on Mamre Road the route available would be via Aldington Road and Bakers Lane.

Travelling south on Mamre road would remain unaffected.

Confirming our discussion that your father had no objection to this proposal.

If you have any questions please do not hesitate to contact me.

Alasdair Cameron | Infrastructure Consultant



ESR Australia & New Zealand Level 12, 135 King Street, Sydney 2000 | au.esr.com **M** +61 402 458 226 **D** +61 2 9506 1430 **E** Alasdair.Cameron@esr.com Follow us on LinkedIn

ESR is currently integrating LOGOS property, with the transition occurring over a phased period.



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----- ORIGINAL HEADER ----- Received: from SYBP282MB3591.AUSP282.PROD.OUTLOOK.COM (::1) by SY4P282MB0826.AUSP282.PROD.OUTLOOK.COM with HTTPS; Wed, 4 Sep 2024 04:25:15 +0000 ARC-Seal: i=2; a=rsa-sha256; s=arcselector10001; d=microsoft.com; cv=pass;

b=RndYzVRsjqO6OYUi4+kc38MD9mxqMbPCmWX4UZ2lY1Ks9BEPaWludaEFhHlirDj62uyGqO/1kCeJ Tvr0uibvjzFPFq9VUcdbWAFVObJ8NSTwx34iWPyWVt/5WhrtqCUVcZ2Msbx6Etha93qBjpQZKl1y6tFJ0F adYO45HeTDBrmTPFYiZE0G+hEsWgIPmyrAtw/5MJFqDRhojnoArkPrJx5NlFyVMPQyt+3q6MNfifK64DF McNqf6lsK11hvbEig21ULGY2OK/BqEOYgkstV1BMtjGOAtaHdaGOGiWaGXh4S1fp7s+TeINT+wloZP/c cJGUDj3PL4jtg9Fwm7rjzxA== ARC-Message-Signature: i=2; a=rsa-sha256; c=relaxed/relaxed; d=microsoft.com; s=arcselector10001; h=From:Date:Subject:Message-ID:Content-Type:MIME-Version:X-MS-Exchange-AntiSpam-MessageData-ChunkCount:X-MS-Exchange-AntiSpam-MessageData-0:X-MS-Exchange-AntiSpam-MessageData-1;

bh=ILd7m6CCBRsL7oZYkm/z3LVmi8dI6h+2Qn9IxssZWgA=;

b=RADqKJ5NkzTWST6DUrM3jdv7/TE4+CfB9LhJ2fCGF/PajudRDSDX/rOvyoXImo8JMH6cDijkte6VsBPJJ oh+2oK5teen4cOHosUIceKvzA3nOtWDWQLdBg8kHOsL/M0DJ/2okb8vKoH9Yo0m/1bVj/9u+xz5lbYX



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Property Owner** 272A Aldington Road, Kemps Creek NSW 2178.

Dear Resident(s)

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Figure 2 Detour plan

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This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date

Yours sincerely,

Alex Lohrisch | Project Manager



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-gld@atl.net.au ABN 96 130 882 405

09/09/2024

Attention to: **BAPS Shri Swaminarayan Mandir, NSW** 232 Aldington Road, Kemps Creek NSW 2178.

Dear Sir or Madam,

## Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services North Sydney i Parramatia | Brisbane | Melbourne Anternation - Anternation -




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Landowner	Lot No. or Address	Signed	Date
RABUKANT PATEL CHERMAN RAPE SWAMNARAYAN SAUSTH AURTRAJA ( 17)	230-242 ALDINGTON ROAD KEMPS CREEK NSW 2178	Reports	18/9/24

Yours sincerely,

Alex Lohrisch | Project Manager

Civil Engineers | Project Managers | Water Servicing Coordinators | Construction Phase Services Norm Symmey | Famametts | Engineer | Melbourne

F:\21-843 Aldington Road Design\12.0 Construction\Construction Management\05 CEMP\Community Notification Letter\8APS Shri Page 2 Swammarayan Mandlr\8AP5 Shri Swaminarayan Mandir\_232 Aldington Rd, Kemps Creek NSW 2176.docx



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Property Owner** 53 Aldington Road, Kemps Creek NSW 2178.

Dear Resident(s)

# Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Yours sincerely,

Alex Lohrisch | Project Manager



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09/09/2024

Attention to: **Property Owner** 284-288 Aldington Road, Kemps Creek NSW 2178.

Dear Resident(s)

# Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Landowner	Lot No. or Address	Signed	Date

Yours sincerely,

Alex Lohrisch | Project Manager



Hi Ellie.

See below. Note the owner of the front lot of 141/142 handles all matters relating to the project so the letters were given to him and he noted no issues. Jackie also confirmed she understood the notification.

LOT 141 DP1033686	Tony Oliva 284-288 Aldington Road,Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Issued 23/09 Discussed in person 18/10- issues
LOT 142 DP1033686	<b>S.Oliva</b> 282 Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Issued 23/09 Discussed in person 18/10 - issues
LOT 15 DP253503	Jacqeline Seraglio 272A Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Notice #1: 23/09/24. Letter
Temple			
BAPS Shri Swaminarayan Mandir, NSW	232 Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Signed provided

# Best regards, Dana McCarthy

FIFECAPITAL Level 12, 89 York Street, Sydney NSW 2000 Phone: +61 2 9251 2777 Fax: +61 2 9251 2877 Mobile: +61 41 666 1034 Email: dana.mccarthy@fifecapital.com.au

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### From: Ellie Bargh <Ellie.b@atl.net.au>

r Thie ie an o

Sent: Monday, 14 October 2024 8:56 AM To: Dana McCarthy <a>Chana McCarthy@fifecapital.com.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Richard Harris <a>cichard.harris@fifecapital.com.au></a>; Cc: Alex Lohrisch <alex.l@atl.net.au>; Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>

Subject: RE: CEMP - Community Consultation Letters - required by 4/10/24

Hi Dana,

Se

Yes, that's right. Could you provide a date on when those letters were hand delivered?

Thanks

Kind regards,	Blue Mountains, NSW
Filie Bargh	Photo by our People & Culture Administrator - Nicola Jordan
Project Manager   Site Superintendent	CIVIL ENGINEERS   PROJECT MANAGERS   WATER SERVICING COORDINATORS ?INFRASTRUCTURE PLANNERS AND ADVISERS   CONSTRUCTION PHASE SERVICES
Sydney   Melbourne   Brisbane www.atl.net.au	AT&L accepts no liability for the content of this email, or for the consequences 7d any actions taken based on the information provided unless that information is subsequently confirmed in writing, Ary views or opinions presented in this email ?are solely those of the author ?? and do not necessarily represent those of the company.

L7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 02 9439 1777

### From: Dana McCarthy < Dana.McCarthy@fifecapital.com.au>

Sent: Friday, October 11, 2024 3:14 PM To: Ellie Bargh <Ellie.b@atl.net.au>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Richard Harris <<u>richard.harris@fifecapital.com.au></u> Cc: Alex Lohrisch <<u>Alex.L@atl.net.au></u>; Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au></u> Subject: RE: CEMP - Community Consultation Letters - required by 4/10/24

Hi Ellie,

I have returned lot 18 (BAPS) signed already

Lot 141, 142 and 15 have been hand delivered.

Best regards, Dana McCarthy.

### FIFECAPITAL

Level 12, 89 York Street, Sydney NSW 2000 Phone: +61 2 9251 2777 Fax: +61 2 9251 2877 Mobile: +61 41 666 1034 Email: dana.mccarthy@fifecapital.com.au

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From: Ellie Bargh <<u>Ellie.b@atl.net.a</u>

Sent: Friday, 11 October 2024 11:10 AM

To: Dana McCarthy <<u>Dana.McCarthy@fifecapital.com.au>;</u> Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Richard Harris <<u>richard.harris@fifecapital.com.au></u> Cc: Alex Lohrisch <alex.l@atl.net.au>; Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>

Subject: CEMP - Community Consultation Letters - required by 4/10/24

Could you please confirm your three notifications attempts for me today, in the table below.

Thanks

Stakeholders Local Residents	Contact Details	Notification by	Notification date
LOT 2 DP25002	1016-1028 Mamre Road, Kemps Creek NSW 2178	Alasdair Cameron	Notice #1: 13/09/24. 73,73A two properties
LOT 141 DP1033686	<b>Tony Oliva</b> 284-288 Aldington Road,Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	To be issued
LOT 142 DP1033686	S.Oliva 282 Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	To be issued
LOT 15 DP253503	Jacqeline Seraglio 272A Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Notice #1: 23/09/24. Letter
Temple			
BAPS Shri Swaminarayan Mandir, NSW	232 Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Notice #1: First notice 25/09

Kind regards, Blue Mountains, NSW
Ellie Bargh
Project Manager | Site Superintendent
Project Manager | Site Superintendent

Sydney | Melbourne | Brisban www.atl.net.au L7, 153 Walker Street

L7, 153 Walker Street North Sydney NSW 2060

<u>02 9439 1777</u> <u>02 9439 1777</u>



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Property Owner** 282 Aldington Road, Kemps Creek NSW 2178.

Dear Resident(s)

# Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

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Figure 2 Detour plan

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Landowner	Lot No. or Address	Signed	Date

Yours sincerely,

Alex Lohrisch | Project Manager



Hi Ellie.

See below. Note the owner of the front lot of 141/142 handles all matters relating to the project so the letters were given to him and he noted no issues. Jackie also confirmed she understood the notification.

LOT 141 DP1033686	Tony Oliva 284-288 Aldington Road,Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Issued 23/09 Discussed in person 18/10- issues
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FIFECAPITAL Level 12, 89 York Street, Sydney NSW 2000 Phone: +61 2 9251 2777 Fax: +61 2 9251 2877 Mobile: +61 41 666 1034 Email: dana.mccarthy@fifecapital.com.au

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r Thie ie an o

Sent: Monday, 14 October 2024 8:56 AM To: Dana McCarthy <a>Chana McCarthy@fifecapital.com.au>; Alasdair Cameron <Alasdair.Cameron@esr.com>; Richard Harris <a>cichard.harris@fifecapital.com.au></a>; Cc: Alex Lohrisch <alex.l@atl.net.au>; Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>

Subject: RE: CEMP - Community Consultation Letters - required by 4/10/24

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Thanks

Kind regards,	Blue Mountains, NSW
Filie Bargh	Photo by our People & Culture Administrator - Nicola Jordan
Project Manager   Site Superintendent	CIVIL ENGINEERS   PROJECT MANAGERS   WATER SERVICING COORDINATORS ?INFRASTRUCTURE PLANNERS AND ADVISERS   CONSTRUCTION PHASE SERVICES
Sydney   Melbourne   Brisbane www.atl.net.au	AT&L accepts no liability for the content of this email, or for the consequences 7d any actions taken based on the information provided unless that information is subsequently confirmed in writing, Ary views or opinions presented in this email ?are solely those of the author ?? and do not necessarily represent those of the company.

L7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 02 9439 1777

### From: Dana McCarthy < Dana.McCarthy@fifecapital.com.au>

Sent: Friday, October 11, 2024 3:14 PM To: Ellie Bargh <Ellie.b@atl.net.au>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Richard Harris <<u>richard.harris@fifecapital.com.au></u> Cc: Alex Lohrisch <<u>Alex.L@atl.net.au></u>; Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au></u> Subject: RE: CEMP - Community Consultation Letters - required by 4/10/24

Hi Ellie,

I have returned lot 18 (BAPS) signed already

Lot 141, 142 and 15 have been hand delivered.

Best regards, Dana McCarthy.

### FIFECAPITAL

Level 12, 89 York Street, Sydney NSW 2000 Phone: +61 2 9251 2777 Fax: +61 2 9251 2877 Mobile: +61 41 666 1034 Email: dana.mccarthy@fifecapital.com.au

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From: Ellie Bargh <<u>Ellie.b@atl.net.a</u>

Sent: Friday, 11 October 2024 11:10 AM

To: Dana McCarthy <<u>Dana.McCarthy@fifecapital.com.au>;</u> Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Richard Harris <<u>richard.harris@fifecapital.com.au></u> Cc: Alex Lohrisch <alex.l@atl.net.au>; Ignacio (Nacho) Vazquez Hume <Ignacio.v@atl.net.au>

Subject: CEMP - Community Consultation Letters - required by 4/10/24

Could you please confirm your three notifications attempts for me today, in the table below.

Thanks

Stakeholders Local Residents	Contact Details	Notification by	Notification date
LOT 2 DP25002	1016-1028 Mamre Road, Kemps Creek NSW 2178	Alasdair Cameron	Notice #1: 13/09/24. 73,73A two properties
LOT 141 DP1033686	<b>Tony Oliva</b> 284-288 Aldington Road,Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	To be issued
LOT 142 DP1033686	S.Oliva 282 Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	To be issued
LOT 15 DP253503	Jacqeline Seraglio 272A Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Notice #1: 23/09/24. Letter
Temple			
BAPS Shri Swaminarayan Mandir, NSW	232 Aldington Road, Kemps Creek NSW 2178	Richard Harris/ Dana McCarthy	Notice #1: First notice 25/09

Kind regards, Blue Mountains, NSW
Ellie Bargh
Project Manager | Site Superintendent
Project Manager | Site Superintendent

Sydney | Melbourne | Brisban www.atl.net.au L7, 153 Walker Street

L7, 153 Walker Street North Sydney NSW 2060

<u>02 9439 1777</u> <u>02 9439 1777</u>



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Mamre Anglican School** 45 Bakers Lane, Kemps Creek NSW 2178.

Dear Sir or Madam,

# Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TfNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

In order to construct the temporary signals, some temporary roadworks works need to be completed, which requires the restriction of the 'right in' and 'right out' movements for Abbotts Road, as shown in Figure 1.

This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date

Yours sincerely,

Alex Lohrisch | Project Manager



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **TfNSW Bus Company** Re: Bus 801 Badgerys Creek to Liverpool (Stop ID: 217813)

Dear Sir or Madam,

# Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TfNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

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Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
Busways Penrith	47-53 Mullins Rd, Penrith, NSW 2750	B.Cantor	23/10/24

Yours sincerely,

Alex Lohrisch | Project Manager

From:	Ben Cantor <bencantor@busways.com.au></bencantor@busways.com.au>
Sent:	Tuesday, 8 October 2024 12:32 PM
То:	Ellie Bargh; Adrian Prichard
Cc:	Dave Davies; Alex Lohrisch; Alasdair.Cameron@esr.com; Ignacio (Nacho) Vazquez Hume
Subject:	Re: CEMP - Community Consultation - Busways

Hi Ellie,

This will not impact on any Busways services.

Transit Systems may be impacted and if you haven't already you will need to advise @Adrian Prichard

### Regards,

**Ben Cantor** Supervisor, Bus Network Infrastructure | Busways Sydney

### **Busways Penrith**

47-53 Mullins Rd Penrith NSW 2750 M 0413 816 916 | W busways.com.au

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From: Dave Davies <ddavies@busways.com.au> Sent: Tuesday, 8 October 2024 10:43 To: Ben Cantor < bencantor@busways.com.au> Subject: FW: CEMP - Community Consultation - Busways

You may not have seen this based on an incorrect email address.

Can you take a look and evaluate please.

**Dave Davies** Manager, Bus Network Infrastructure

Working Days|Tuesday, Wednesday, and Thursday

### **Busways Group**

5 Bridge St, Pymble NSW 2073 M +61 438 537 977 | W busways.com.au

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From: Ellie Bargh < Ellie.b@atl.net.au>

Sent: Friday, October 4, 2024 9:34 AM

To: Dave Davies <<u>ddavies@busways.com.au</u>>; <u>bencontor@busways.com.au</u>

Cc: Alex Lohrisch <<u>Alex.L@atl.net.au</u>>; Alasdair Cameron <<u>Alasdair.Cameron@esr.com</u>>; Ignacio (Nacho) Vazquez Hume <<u>Ignacio.v@atl.net.au</u>> Subject: CEMP - Community Consultation - Busways

Hi Dave,

Thank you for returning my call. Attached is our Community Notification Letter, containing information on our upcoming scope of road works in Mamre/ Abbotts Rd Kemps Creek.

I believe the nearest Bus Stop is:

801 Badgerys Creek to Liverpool

Stop ID: 217813

@bencontor@busways.com.au could you kindly review this information and sign and return your acknowledgement back to me today.

If you wish to discuss the above matter further, you can also reach me directly on 0405 704 705.

Kind regards,

Ellie Bargh

Project Manager | Site Superintendent

Cordeaux Dam Photo by our Senior Project Manager - Andrew Byrne

CIVIL ENGINEERS | PROJECT MANAGERS | WATER SERVICING COORDINATORS ?INFRASTRUCTURE PLANNERS AND ADVISERS | CONSTRUCTION PHASE SERVICES

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L7, 153 Walker Street North Sydney NSW 2060

02 9439 1777 02 9439 1777



Suite A1 Level 20 127 Creek Street Brisbane QLD 4000 P 07 3211 9581 E info-qld@atl.net.au ABN 96 130 882 405

www.atl.net.au

09 September 2024

Attention to: **Emmaus Catholic College** 87-109 Bakers Lane, Kemps Creek NSW 2178.

Dear Sir or Madam,

# Community Notification Letter: Mamre/ Abbotts Intersection Upgrade (MAIU) Stage 1 and 2 Construction Traffic Management Plan (CTMP)

AT&L is the appointed Project Manager for the Mamre and Abbotts Road Intersection Upgrade (MAIU) project. This road upgrade is currently under final stages of preconstruction approvals through Transport for NSW (TfNSW) and is preparing to commence construction.

TfNSW has been consulted to determine the most efficient and safe method for construction. Temporary traffic signals will be implemented at this intersection for the duration of construction.

In order to construct the temporary signals, some temporary roadworks works need to be completed, which requires the restriction of the 'right in' and 'right out' movements for Abbotts Road, as shown in Figure 1.

This restriction is expected to be for a duration of around 8 months from commencement of works. During this time, Abbotts Road will be restricted to "left-in" and "left-out" access only. Landowners on Aldington Road and Bakers Lane will divert via a convenient and safe alternative route, which is to utilise the newly upgraded Bakers Lane and Mamre Road intersection. This route is shown below in Figure 2.



Figure 1 Temporary Road works, Mamre Road/ Abbotts Road, Kemps Creek





Figure 2 Detour plan

For your safety, please follow the speed limits and other posted signage during construction and allow extra travel time to accommodate these temporary works.

This letter is regarding this specific issue, however Mamre Precinct Community updates will continue to occur through SLR Consulting Australia P/L via Phone (02) 9427 8100 and Stephen Shoesmith (sshoesmith@slrconsulting.com). Any updates to this information will be communicated in advance. If you have any questions or need more details, please feel free to contact the undersigned.

To confirm receipt of this notice, please arrange for a representative of the landowner to sign below. Your cooperation, patience, and understanding during these necessary improvements are greatly appreciated.

Landowner	Lot No. or Address	Signed	Date
Trustees of the Roman Catholic Church for the diocese of Parramatta	87-109 Bakers Lane Kemps Creek	3	19/09/2024

Yours sincerely,

Alex Lohrisch | Project Manager



22 OCT 2024

ErSed Reference: 24004-ESR \_AARU CEMP-242210

Alasdair Cameron Infrastructure Consultant ESR Australia, Level 12 135 King Street, Sydney 2000

## Re: SSD 9138102: ESR Westlink -Aldington and Abbots Road Upgrade, Phase 1

Condition of Approval A35 (e)(i) for SSD 9138102 provides;

- A35. The Applicant must engage an Environmental Representative (ER) to oversee construction of the development. Unless otherwise agreed to by the Planning Secretary, construction of the development must not commence until and ER has been approved by the Planning Secretary and Engaged by the Applicant. The ER must:
  - (e) review the CEMP identified in Condition C2 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this consent, and if so:
    - (i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or
    - (ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary/Department for information or are not required to be submitted to the Planning Secretary/Department);

I have reviewed the following documents against the requirements of A35 and the other relevant conditions of SSD 9138102.

Documenta	Version & Date (Author)					
Aldington and Abbots Road Upgrade – Phase 1						
Construction Kemps Cree	n Environmental Management Plan – Aldington and Abbots Road Upgrade Phase 1, k, October2024	Rev 02 Aspect 10/10/24				
Appendix C	Mamre – Abbots Intersection Upgrade (MAIU) and Aldington Abbots Road Upgrade (AARU) – Construction Noise and Vibration Management Plan	V 1.2 20/8/24 SLR				
Appendix D	Mamre – Abbots Intersection Upgrade (MAIU) and Aldington Abbots Road Upgrade (AARU) – Construction Air Quality Management Plan	V 1.2 20/8/24 SLR				
Appendix E	Construction Waste Management Plan, Adlington Road Upgrade and Abbots Road Intersection Upgrade,	Rev 03 Aspect 14/8/24				
Appendix F	Unexpected Contamination Finds Protocol, Mamre Road and Aldington Road Upgrade, Kemps Creek NSW	V2 f ADE Consulting Group 14/8/24				
Appendix I	Adlington and Abbots Road, and Mamre and Abbots Road Intersection, Heritage Management Plan for SSD- 9138102- MOD 5	Version 1 Biosis 17/4/24				
Appendix J	Construction Traffic Management Plan, Mamre Road, Abbots Road and Aldington Road Upgrade	Version 3 Ason group 18/10/24				

Documentation		Version & Date (Author)
Appendix N	AARU and MAIU Contingency Plan	Rev 2 Aspect 22/10/24

The Environmental Representatives confirm that the above documents are consistent with the requirements in or under the Development Consent for SSD 9138102 issued 21 APRIL 23.

Please contact me if you require further information.

Sincerely

**Richard Peterson** 

Environmental Representative - Alternate (SSD 9138102)



22 OCT 2024

ErSed Reference: 24004-ESR-MAIU-CEMP-242210

Alasdair Cameron Infrastructure Consultant ESR Australia, Level 12 135 King Street, Sydney 2000

## Re: SSD 9138102 and SSD 10479 – Mamre Road and Abbots Road Intersection Upgrade.

Condition of Approval A35 (e)(i) for SSD 9138102 and Condition of Approval C34(e)(i) for SSD 10479 provides;

A35. The Applicant must engage an Environmental Representative (ER) to oversee construction of the development. Unless otherwise agreed to by the Planning Secretary, construction of the development must not commence until and ER has been approved by the Planning Secretary and Engaged by the Applicant. The ER must:

- (e) review the CEMP identified in Condition C/E2 and any other documents that are identified by the Planning Secretary, to ensure they are consistent with requirements in or under this consent, and if so:
  - (i) make a written statement to this effect before submission of such documents to the Planning Secretary (if those documents are required to be approved by the Planning Secretary); or
  - (ii) make a written statement to this effect before the implementation of such documents (if those documents are required to be submitted to the Planning Secretary/Department for information or are not required to be submitted to the Planning Secretary/Department);

I have reviewed the following documents against the requirements of A35/C34 and the other relevant conditions of SSD 9138102 and SSD110447.

Documenta	Version & Date (Author)	
Aldington a	nd Abbots Road Upgrade – Phase 1	
Construction Upgrade, Ke	n Environmental Management Plan – Mamre and Abbots Road Intersection Road mps Creek	Rev 04 Aspect 16/10/24
Appendix C	Mamre – Abbots Intersection Upgrade (MAIU) and Aldington Abbots Road Upgrade (AARU) – Construction Noise and Vibration Management Plan	V 1.2 20/8/24 SLR
Appendix D	Mamre – Abbots Intersection Upgrade (MAIU) and Aldington Abbots Road Upgrade (AARU) – Construction Air Quality Management Plan	V 1.2 20/8/24 SLR
Appendix E	Construction Waste Management Plan, Adlington Road Upgrade and Abbots Road Intersection Upgrade,	Rev 03 Aspect 14/8/24
Appendix F	Unexpected Contamination Finds Protocol, Mamre Road and Aldington Road Upgrade, Kemps Creek NSW	V2 f ADE Consulting Group 14/8/24
Appendix I	Adlington and Abbots Road, and Mamre and Abbots Road Intersection, Heritage Management Plan for SSD- 9138102- MOD 5	Version 1 Biosis 17/4/24
Appendix J	Construction Traffic Management Plan, Mamre Road, Abbots Road and Aldington Road Upgrade	Version 3 Ason group 18/10/24

Documenta	Version & Date (Author)	
Appendix N	AARU and MAIU Contingency Plan	Rev 2 Aspect 22/10/24

The Environmental Representatives confirm that the above documents are consistent with the requirements in or under the Development Consent for SSD 9138102 issued 21 APRIL 23 and SSD 10479 issued on 5 May 23.

Please contact me if you require further information.

Sincerely

**Richard Peterson** 

Environmental Representative - Alternate (SSD 9138102 and 10479)

# Ignacio (Nacho) Vazquez Hume

From:	Richard Peterson <richard.peterson-trigalana@outlook.com></richard.peterson-trigalana@outlook.com>
Sent:	Tuesday, 22 October 2024 6:01 PM
То:	Alasdair Cameron; Ignacio (Nacho) Vazquez Hume; carl.vincent@ersed.com.au
Cc:	Alex Lohrisch; Ellie Bargh
Subject:	Re: MAIU & AARU - CEMP
Attachments:	24004 ESR- ABBOTS RD UPGRADE 22_10_24.pdf; 24004 ESR- MAIU RD UPGRADE 22_10 _24.pdf

Categories:

FileChimp

Hi Alasdair

Please refer to attached letters of endorsement,

Let me know if you have any comments on the letters.

Carl will need to review the ESCP which needs to be done by a CPESC

I will forward this to him separately

Cheers



Richard Peterson | Director Trigalana Environmental Pty Ltd M: 0429 227 775

E: Richard.peterson-trigalana@outlook.com

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From: Alasdair Cameron <Alasdair.Cameron@esr.com>
 Sent: Tuesday, 22 October 2024 3:47 PM
 To: Richard Peterson <richard.peterson-trigalana@outlook.com>; Ignacio (Nacho) Vazquez Hume

<Ignacio.v@atl.net.au>; carl.vincent@ersed.com.au <carl.vincent@ersed.com.au>



My apologies for the delay in reviewing the CEMP. I just received the comments from our Environmental team raising no

objections to the GEMIP out noted the following.

Appendix C is the Construction Noise and Vibration Management Plans. Noise in the Mamre Road Precinct is assessed by DPHI and so therefore has not formed part of Council's review. Also, in Appendix F (UCFP) within the flow chart for unexpected contamination finds there is some missing text from a box on the lower right-hand side. The chart still makes sense; however, this missing text should be included.

Please feel free to contact me if you have any questions.



Obtener Outlook para Android Kind reporte



ATAL accepts no liability tox the context of this email, or for the consequences of any actions taken based on the information wided unless that information is suborquently confirmed in writing y views to confirm presented in this email are obey those of the lastfor and do not necessarily represent those of the company. Level 7, 153 Walker Street North Sydney NSW 2060 in © From: PM Sent: Wednesday, 25 September 2024 1:51 To: Subject: RE: MAIU & AARU - CEMP Hi Thank you for the chat earlier. As discussed, I have forwarded the submitted CEMP documents to our Environmental team for their review and to provide me with feedback. I will keep you updated as soon I receive their comments. Please feel free to contact me if you have any questions. Kind Regards. senior Engineer - Major Developments Engineering Services O BOX 60, PENRITH NSW www.visitpi www.penithcity.nsw.gov.au PENRITH CITY COUNCIL C C C Colov us WEDNESDAY 2 OCTOBER PENRITH City Park, Penrith WEDNESDAY 9 OCTOBER Coachmans Park, St Marys From: Sent: Monday, September 23, 2024 8:50 AM To: subject: MAIU & AARU - CEMP EXTERNAL EMAIL: This email was received from outside the organisation. Use caution when clicking any links or opening attachments.

Hi

I am writing to seek Council's consultation on the Construction Environmental Management Plan (CEMP) for the External Road Works associated with the Mamre and Abbotts Intersection Upgrade (MAIU) and Aldington and Abbotts Road Upgrade (AARU). This is in accordance with Condition D25(a) of SSD-9138102 MOD5, which requires the CEMP to be prepared in consultation with Council prior to the commencement of the External Road Works.

To provide context, there will be three separate overarching CEMPs for the following projects:

- MAIU
- AARU Phase 1
- AARU Phase 2

All three CEMPs will utilize the same set of sub-reports, which cover the scope of these projects. This approach ensures consistency in managing traffic, environmental monitoring, and other key aspects while addressing the specific requirements of each phase.

Please find the link below to the CEMP's folders for your review, which contain the Construction Traffic Management Plan for all three projects. We would appreciate your feedback and any recommendations within the next week to help us stay on schedule and comply with the consent conditions.

AARU CEMP

(See Annexure J - CTMP) MAIU CEMP (See Annexure J - CTMP)

ARE DO AND A DATE OF A DECK

If there is any additional information you require or if you would like to arrange a meeting to discuss further, please feel free to reach out.

Thank you for your attention, and I look forward to your response.

Kind regards,





Lake Parramatta, Parramatta Photo by our Associate I WDC Team Lead - Samantha Benneti

CIVIL ENGINEERS | PROJECT MANAGERS | WATER SERVICING COORDINATORS INFRASTRUCTURE PLANNERS AND ADVISERS | CONSTRUCTION PHASE SERVICES

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Sydney I Melbourne I Brisbane www.atl.net.au

Level 7, 153 Walker Street North Sydney NSW 2060









# ABBOTTS ROAD / ALDINGTON ROAD MAMRE ROAD / ABBOTTS ROAD INTERSECTION Community Consultation and Complaints Handling Strategy

# 1. Introduction

# 1.1 Background

Stockland Fife Kemps Creek Pty Limited (SFKC) is seeking to upgrade Abbotts Road and Aldington Road, including the Mamre Road / Abbotts Road intersection, under a joint delivery with ESR and Frasers. A modification application has been prepared and is currently under assessment to pull the environmental impacts of the proposed road works into SFKC's existing consent, SSD-10479, for 200 Aldington Rd, Kemps Creek. The determination of the modification will enable issue of relevant road approvals: Works Authorisation Deed (WAD) (TfNSW) or Section 138 (Penrith City Council), which will allow SFKC and its proposed contractor to deliver the works on behalf of government to support the new warehouses in the Mamre Road Precinct.

As part of the modification's assessment, Department of Planning, Housing and Infrastructure (DPHI) requested SFKC to undertake community consultation to advise immediate landowners of the environmental impact associated with the proposed road works. SFKC with ESR undertook door knocking to affected residents on 16 May 2024. Outcomes of this engagement is contained at Section 2.2 of the draft *Community Consultation and Complaints Handling Strategy*.

SFKC recognises the engagement will be an ongoing process with residents as road works commence. Therefore, this draft *Community Consultation and Complaints Handling Strategy* has been prepared to support the project during its duration.

# 1.2 Purpose

This draft *Community Consultation and Complaints Handling Strategy* (Engagement Strategy) outlines the following:

- Identification of consultation triggers and methods with adjacent landowners and residents, key stakeholders, relevant agencies and the wider community
- The tools and actions to be undertaken throughout the construction program for the road works to disseminate information through notification of relevant stakeholders
- Enquiry and compliant management protocol; and
- Monitoring and feedback mechanism.

The Engagement Strategy is anticipated to be a dynamic document. To be updated for variations in the construction program, methodology and feedback from residents.





# **1.3** Community Communications and Complaints Handling Strategy Scope

The Engagement Strategy applies to Mamre Road/ Abbotts Road intersection works and Abbotts Road/Aldington Road works associated with the Proponent and their engagement contractors. This document outlines the method, triggers, and timing of consultation, notification and complaints and queries handling required in the course of construction of the road works.

## 1.4 Project Description

Proposed Mamre Road and Abbotts Road Intersection works are described as follows:

- a. Installation of traffic signals (TCS5186) and associated road work construction to TfNSW requirements at the intersection of Mamre Rd and Abbotts Rd, Kemps Creek:
  - i. Demolition;
  - ii. Earthworks;
  - iii. Drainage;
  - iv. Utilities;
  - v. Pavement;
  - vi. Signage and Line marking;
  - vii. Concrete works (kerb, medians, and footpaths);
  - viii. Landscaping;

i.

- ix. Traffic Control Signals.
- b. Installation of traffic signals and associated concrete works, signage and line marking as per the TfNSW requirements at the following intersections:
  - Interim Intersection 1 (TCS5180) Abbotts Rd and Aldington Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
  - ii. Intersection 2 (TCS5242) Aldington Road and DCP Road, Kemps Creek:
    - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
    - Traffic Control Signals.
- iii. Intersection 3 (TCS5181) Aldington Road and DCP Road Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
  - Signage and Line marking;
  - Traffic Control Signals.
- iv. Interim Intersection 4 (TCS5182) Aldington Road and DCP Road, Kemps Creek:
  - Concrete works (kerb, medians, and footpaths);
    - Signage and Line marking;
  - Traffic Control Signals.

The proposed Abbotts and Aldington Roads seeks to construct new 4 lane distrubutor road:



- a. Demolition;
- b. Earthworks;
- c. Drainage;
- d. Utilities;
- e. Pavement;
- f. Signage and Line marking;
- g. Concrete works (kerb, medians, and footpaths); and
- h. Landscaping.





# Figure 1 Scope of Project Works



Source: Ethos Urban



# 2. Key Stakeholders and Potential Issues

# 2.1 Key Stakeholders

The key stakeholders likely to require consultation, notification and or likely to raise comment or complaint in the course of the road works include (but are not limited to):

- Adjacent property owners or occupiers
- Landowners in the Mamre Road Precinct, not directly adjacent to the proposed road works
- Landowners outside of the Mamre Road Precinct, such as Mount Vernon residents
- Local Council (Penrith City Council)
- Transport for NSW
- NSW Police
- Department of Planning, Housing and Infrastructure
- Utility and Services Providers, including:
  - o TransGrid
  - o Endeavour Energy
  - Sydney Water
- Other Interested Parties

# 2.2 Previous Consultation

The proposed road works have been documented in SFKC's development application since 2021. The proponent and their representatives have undertaken consultation as part of this DA, as well as developing the for-construction design under the WAD and Section 138 process.

In addition, SFKC and ESR recently door knocked residents as part of this modification to support the proposed road works modification on 16 May 2024. Outcomes of this consultation is outlined in **Table 1** below.

Address	Lot/DP	Road Works Impact	Consultation Outcome
54-72 Aldington Road Kemps Creek	43/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:12AM</li> <li>Vacant residential property</li> <li>Currently operating as a basil farm</li> <li>Discussed with worker the proposed road works and left contact information for further questions</li> </ul>
53 Aldington Road Kemps Creek	38/DP708347	<ul> <li>Directly adjacent to proposed Aldington Road works</li> </ul>	<ul> <li>Attended site at 9:16AM</li> <li>No one at the property</li> <li>Identified to reattend site in the next two weeks</li> </ul>

## Table 1 16 May 2024 Consultation Outcomes

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





269 Aldington Road	8/DP253503	•	Directly adjacent to	•	Attended site at 10:10AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Understood land is currently under
		•	In proximity to		transaction to a developer
			Mamre Road/	•	ESR and SFKC to contact developer to
			Abbotts Road		discuss proposed road works
			intersection works		
284-288 Aldington	141/DP1033686	•	Directly adjacent to	•	Attended site at 9:26AM – 9:37AM
Road Kemps Creek			proposed Aldington	•	Met with the landowner
			Road works	•	Discussed the road upgrade including
		•	In proximity to		environmental impacts e.g. noise, dust,
			Mamre Road/		etc
			Abbotts Road	•	No major issues raised
			intersection works	•	Further discussions on driveway tie-in
					under the proposed road works.
				•	Ongoing consultation identified
282 Aldington Road	142/DP1033686	•	Directly adjacent to	•	Attended site at 9:21AM
Kemps Creek			proposed Aldington	•	No one at the property
			Road works	•	Met with relative at Lot 141, refer to
		•	In proximity to		conversation
			Mamre Road/	•	Ongoing consultation identified
			Abbotts Road		
			intersection works		
287 Aldington Road	11/DP296455	•	Directly adjacent to	•	Attended site at 10:11AM – 10:30AM
Kemps Creek			proposed Abbotts	•	Met with the landowner
			and Aldington Road	•	No issues with noise
			works	•	Concern regarding retain fence on
		•	Directly adjacent to		property boundary
			proposed Mamre	•	ESR advised proposed upgrade will not
			ROAD/ ADDOTTS ROAD		touch his fence
			Intersection works	•	Ongoing consultation identified
				•	ESR to organise meeting with road
					contractor closer to date of
					construction commencement to discuss
1016 1020 14	2 (55250002		<b>-</b>		protecting his fence
TOTP-TOTS Mamle	2/08250002	•	Directly adjacent to	•	Attended site 10:34AM
коай кеттря стеек			proposed ADDOTTS	•	No one at the property
			and Aldington Road	•	identified to reattend site in the next
			WUIKS		two weeks
		•	Directly adjacent to		
			Proposed Marine		
			nudu/ AUDULLS KOBO		
			Intersection works		





272 Aldington Road Kemps Creek	15/DP253503	•	Directly adjacent to proposed Aldington Road works	• • • • •	Attended site from 9:44AM-10:09AM Met with the landowner Landowner requested to send plan for road upgrade FKC to attend her site on Monday, 20 May 2024 to discuss proposed plans Wanting to coordinate driveway access Landowner concerned regarding traffic controllers and ongoing upgrades of traffic arrangements entering and exiting Abbotts Road Advised a website would be set up with a mailing list subscription Landowner concerned regarding length of time to upgrade road Requested ESR and SFKC to shut down road to accelerate road upgrade. ESR and SFKC advise this was not possible due to prohibition of using Bakers Lane for construction and
1005-1023 Mamre Road Kemps Creek	40/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	operational trattic.Attended site from 10:56AM – 11:30AMMet with the landownerConcern regarding construction trafficmanagement and stormwaterDiscuss the need to reduce the speedlimit, which ESR and SFKC advisedwould occur under the WADDiscussed the need to relocate thepower polesDiscussed the compulsory acquisition ofSydney Water and the proposedregional stormwater schemeESR and SFKC advised we could workwith the landowner on impactsassociated with the road worksDiscuss road tie into the proposed roadupgradeESR and SFKC agreed to share IPARTsubmission once completed in relationto the regional stormwater mattersESR issued plan of road works on 17May for information

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				•	Outcomes of discussion were to have a follow up meeting with all landowners on western half of Mamre Road. Tentatively scheduled for the 27 May 2024
20 Aldington Road Kemps Creek	44/DP708347	•	Directly adjacent to proposed Aldington Road works	•••	Attended site at 9:08AM No one answered Identified to reattend site in the next two weeks
983 Mamre Road Kemps Creek	39/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Landowner attended meeting with ESR, SFKC and landowner at Lot 40, DP 258414 Refer to above consultation outcomes for further information
967-981 Mamre Road Kemps Creek	38/DP258414	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•••	Unable to attend site Landowner to join drop in with residents on 27 May 2024
1066-1078 Mamre Road Kemps Creek	5/DP250002	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	• • • • •	Attended site at 10:45AM ESR called resident and left message on 16 May 2024 No one at property ESR discussed proposed works on 17 May 2024 via phone No major issues Site is currently under due diligence by a developer
930-966 Mamre Road Kemps Creek	51/DP259135	•	Directly adjacent to proposed Mamre Road/ Abbotts Road intersection works	•	Attended site at 10:48AM Talked to resident via intercom Did not want to discuss the proposed road works Left contact card should they have any questions

#### 2.3 Potential Issues and Strategies

SFKC is committed to ongoing, proactive consultation with the community and stakeholders while understanding the importance of addressing potential issues and minimising construction related impacts. **Table 2** outlines potential project issues that are likely or known to be of interest or concern to the community and stakeholders. The able also details the communications related measures and strategies that SFKC and its delivery partners will undertake to manage and mitigate impacts.





Where an incident or non-compliance arises relating to environmental management and beyond the scope of matters relating to consultation, the management and mitigation measures will be handled as part of the approval under the WAD and Section 138. It is noted a Construction Environmental Management Plan is a required document to be approved by the relevant roads authority under the relevant road approval process.

Potential Issue	Potential Key Impact	Mitigation Strategy
Noise and Vibration	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with noise and vibration.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of noise and vibration associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement to occur during the commencement and delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drop advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> <li>Up to date information on current works will be accessible to all stakeholders via the project webpage.</li> <li>Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification</li> </ul>

#### Table 2 Issue Identification and Mitigation





		<ul> <li>via the project webpage, mailing list and letter box drop will be undertaken.</li> <li>The CEMP, along with the supporting Construction Noise and Vibration Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.</li> </ul>
Air Quality	Truck, machinery and light vehicle movements to support the proposed road works have potential to create negative impacts associated with air quality.	<ul> <li>ESR and SFKC to consult with landowners directly adjacent to the road corridor and advise them on the potential impacts of air quality associated with the road works. Note: This has been undertaken on 16 May 2024</li> <li>Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification.</li> <li>Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works.</li> <li>Note: Direct engagement is offering an in person sit down to discuss the road works. Indirect engagement is via other communication methods, e.g. emails, newsletters, website, etc.</li> <li>For landowners in the broader Precinct and surrounding areas, letter box drops advising of the commencement of road works to be circulated prior to commencement of road works. Letter box drop will point landowners/ residents to a dedicated website for the road works and ability to register for a mailing list.</li> </ul>





		T	
		•	works will be accessible to all stakeholders via the project webpage. Should any works be likely to generate impacts beyond those identified directly adjacent to the road works, notification via the project webpage, mailing list and letter box drop will be undertaken. The CEMP, along with the supporting Construction Air Quality Management Plan, will contain specific measure to manage impacts across stages of road works, e.g. earthworks, asphalt, landscaping. These management plans will be informed by commitments within the modification reports, EPA standards and guidelines.
Traffic	the movement of construction machinery to and from site, the closure of parts of road to support delivery of road works, change of traffic through movement within the road corridor	•	landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Notification to be circulated 4 weeks prior to any traffic changes to registered parties via the mailing list and letter box drop. VMS boards adjacent to the proposed road works to identify changes to road conditions prior to them occurring. The CEMP and Construction Traffic Management Plan identify specific
			mechanisms to manage and mitigate these impacts including Driver Code of
			Conduct, intersection arrangements such as left in, left out only.
Stormwater,	High rainfall events could result in localised	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be
Stormwater, Sediment Control.	High rainfall events could result in localised flooding.	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water
Stormwater, Sediment Control, Erosion, Water	High rainfall events could result in localised flooding. Construction could result in impacts to local	•	Conduct, intersection arrangements such as left in, left out only. Surrounding sensitive receivers will be consulted with in relation to adjacent works regarding flooding and water





		•	The CEMP, along with the supporting Erosion and Sediment Control Plan identify specific mechanisms to manage and mitigate these impacts in accordance with the relevant Penrith City Council standards and commitments within the SSDA.
Waste Management	Earthworks and construction waste present at the site during works.	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Removal of Flora and Fauna	The removal of native and exotic flora and fauna to facilitate road works, with associated potential for impacts on safety of immediately adjacent receivers, along with biodiversity and visual amenity	•	The CEMP will identify specific mechanisms to manage and mitigate these impacts.
Visual Amenity and Privacy	Visual impacts of earthworks and construction activities, along with potential impacts of privacy of adjacent sensitive receivers.	•	Bi-monthly direct engagement with landowners directly adjacent to the road corridor to commence following approval of the road works modification. Monthly direct engagement with landowner directly adjacent to the road corridor to commence at the start of the delivery of the road works. Should issues arise, ESR and SFKC will work with the landowner to identify appropriate mitigation methods to assist with privacy during the road works.
Out of Hours Works	The identified impacts could be magnified due to the works being carried out while surrounding receivers are more likely to be home in the early morning/ evening, or asleep, with corresponding lower background noise levels.	•	Direct engagement with landowners directly adjacent to the road corridor to occur 4 weeks prior to nighttime noise works. Letter box drop to be undertaken for receivers within Mamre Road Precinct and the broader area. Website and VMS boards to be updated advising of the night time works. Concerns and appropriate mitigation to be adopted utilising the relevant management plan/ mitigation solution, such as acoustic.





		•	ESR and SFKC to prepare a report to DPHI advising of concern raised by landowner and mitigation adopted to minimise impact to receiver.
Aboriginal Heritage	There is a potential for encountering items of Aboriginal Heritage during excavation.	•	Monitoring of works by appropriately qualified personnel, along with the implementation of an unexpected finds protocol in consultation with Aboriginal Stakeholders and Heritage Division of the Department of Planning, Industry and Environment The CEMP identifies specific mechanisms to manage and mitigate these impacts
Misinformation and Misunderstanding	Lack of project awareness within the wider community may result in complaints being raised by those unaware of the extent of the approval, with these complaints not directed through the appropriate project hotline. Unauthorised release of project information by the project team to the media, stakeholders or the community has potential to impact on project perception in the community.	•	The engagement strategy commits to provide regular updates in plain language, supported by imagery to stakeholders and the wider community through public and private media. Contact details will be provided on the webpage, on site and all information issued. Information on project works, reporting and compliance is to be maintained and updated on the project website.
Emergency Event	Unforeseen emergency with the potential impact on the community either directly, or indirectly through out of hours activities that may generate additional traffic or noise.	•	Communication updates will be issued to all stakeholders during emergency events, with the CEMP identifying specific mechanisms to manage and mitigate these impacts from an environmental management perspective.



#### 3. Communications and Community Liaison Representative

SFKC will nominate a Communications and Community Liaison Representative (the representative) who will provide the community and stakeholders with a single point of contact for all aspects of the project, responsible for receiving and disseminating information requests and complaints, along with addressing any interface issues.

The representative will be available for contact by the local residents and the community at all reasonable times to answer any questions and address any concerns relating to the project. The representative will have up-to-date information on:

- Emerging stakeholders
- Planned construction activities
- Planned traffic arrangements
- Current landowner discussions with members of staff
- Planned community and stakeholder consultation
- Complaints and enquiries received
- Duties and accountabilities of staff; and
- Commitments to stakeholders made by SFKC and the broader delivery group.

The engagement representative will be responsible for recording, actioning and provided response to comments, queries or complaints received with relation to the construction of the project and will maintain the Complaints Register.

Engagement Representative Alasdair Cameron Project Manager – Infrastructure <u>Alasdair.Cameron@esr.com</u> 0402 458 226

The representative will be supported by AT&L, which are nominated as the project manager and superintendent. Additional contacts available to be reached at are as follows:

Project Manager Alex Lohrisch AT&L <u>Alex.L@atl.net.au</u> 0415 398 014

Superintendent Gabriel Vermeesch AT&L Gabriel.V@atl.net.au





0447 285 607

Any queries and complaints directed to AT&L will be immediately passed to the Engagement Representative on behalf SFKC, ESR and Frasers for action and response.





#### 4. Community and Stakeholder Engagement

#### 4.1 Objectives

The key objectives of the strategy are to:

- Keep the local community and key stakeholder informed of the progress of the road works
- Ensure that enquiries and complaints received from the community or key stakeholders are addressed and responded to in a timely and effective manner
- Inform relevant parties in advance of potential disturbances and events likely to cause impact
- Be good neighbours and members of the local community throughout the duration of the project
- Providing an open two communication channel to allow ongoing, iterative engagement; and
- Seek opportunities for improvement throughout the project.

#### 4.2 Conduct

In their communications and consultation with the community and key stakeholders, SFKC and their representatives will comply at all times with the requirements of the *Privacy and Personal Information Protection Act 1998 (NSW)* and the *Privacy Act 1988 (Cth)*.

#### 4.3 Communication, Management and Mitigation Tools

A range of tools and techniques will be used to inform and engage with the community and stakeholders regarding the project. **Table 3** below provides an overview of the mechanisms to be utilised to notify and consult with local community and key stakeholders and measures to mitigate potential issues throughout the development.





#### Table 3 Communication Management and Mitigation Tools

Tool/ Technique	Description	Person Responsible	Audience	Frequency/timing	Specifications
Consultation Meetings	Meetings held to	Engagement	The wider community	Quarterly Town Halls to	Details and matters to
	notify, discuss or	Representative with	and key stakeholders	be established to	be discussed to be
	consult on matters	assistance from PM		update the public on	tailored to the purpose
	arising of relevance of			the progress of the	and aims of the
	community and/or key			road works. One to	meeting.
	stakeholders.			occur prior to	
				commencement. Town	Record of conversation
	Meetings to be held			Halls to exist during the	(informal) or minutes
	either face to face or			construction	(formal) to be
	on virtual platform(s).				recorded, retained by
				Additional meetings to	SFKC and provided to
				be held on an as needs	all attendees following
				basis dependent on	the meetings. A record
				matters to be discussed	of the discussions shall
				and appropriate timing	be included in the
				of discussions.	Complaints Register
					and actioned as
					required.
Complaints Register	Recording community	Engagement	The wider community	Project duration	The maintenance of
	and stakeholder	Representative with	and key stakeholders		the Complaints
	interactions (including	assistance from PM			Register will be
	notifications,				continually updated to
	consultation, queries,				record community
			- 80		

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000



	comments and complaints), along with associated remedial actions as required				engagement including information provided by SFKC, feedback received and remedial action undertaken where required.
Agency Meetings	Meetings with agencies to discuss matters relevant to their agency	Engagement Representative	Relevant Agency	As required	Meetings will be held as required to address matters relevant to specific agencies. These shall be undertaken directly by SFKC.
Notification Letterbox Drop	Letters would be provided to specific receivers identified as being potentially affected by construction. This may be undertaken in tandem with doorknocking.	Engagement Representative with assistance from the PM.	The wider community and key stakeholders	As required for the project duration	Letterbox drop details to be recorded in the Complaints Register. Letterbox drops to occur at big project milestones, such as completion of stages, prior to Town Hall events, or any changes to traffic management which would affect the broader community.

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000



Email and phone	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder and	Representative with	and key stakeholders	project duration	consent, contact details
	contact details	assistance from the			shall be utilised to
	provided, contact is	PM.			provide notification or
	made via email, phone				further contact to
	and/or text message to				respond to query or
	notify or respond to				complaint.
	query or complaint.				
					Recorded contact
					details are to be kept
					private and used
					exclusively for the
					purpose of
					consultation on the
					project.
Email Mailing List	Where agreed to by	Engagement	The wider community	As required for the	With the stakeholders
	the stakeholder, an	Representative with	and key stakeholders	project duration	consent, contact details
	email mailing list to be	assistance from the			shall be utilised to
	set up to notify	PM.			provide notification or
	interested parties in				further contact to
	updates on the project.				respond to query or
					complaint.
					Recorded contact
					details are to be kept

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000



					private and used exclusively for the purpose of consultation on the project.
On Site Signage	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Contain key project contact details including the hotline and webpage, along with relevant project and safety information.
VMS Boards	Project information details	Engagement Representative with assistance from the PM.	Local traffic, construction and operational traffic and residents of the immediate area.	Project duration	Inform updates on changes to traffic conditions during the road upgrade works.
Project Information and Complaints Number	Phone number to be contacted should information on the project be required or complaint lodged.	Engagement Representative with assistance from the PM	The wider community and key stakeholders	Project duration	Phone number to be included on site signage, the webpage and all project information material. Feedback provided to be incorporated into the Complaints

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000



					Register and actioned as required.
Staff and Visitor Induction and Training	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Key project safety information, contact details, emergency procedures and site information.
Toolbox and Prestart Meetings	Project information details	Superintendent and Management Staff	Staff and visitors to the site	Project duration	Task specific safety information, emergency procedures, and relevant project updates. All staff and subcontractors to be made aware of external and internal communication procedures.
Website	A webpage to be established for the road works	SFKC and its delivery partners	The wider community and key stakeholders	Project duration	Website address and phone number located on site signage and all project information. Webpage to detail road works, updates on traffic conditions. To be

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000



			utilised as a way to
			keep live updates
			available to interested
			parties.

Stockland Fife Kemps Creek Pty Limited ACN 628 770 141 ATF Stockland Fife Kemps Creek Trust ABN 47 273 439 938 Level 25, 133 Castlereagh Street, Sydney NSW 2000





#### 4.4 Notification Procedure

Where notification is required, notification shall be undertaken within the timeframes outlined in the engagement strategy associated with key milestone dates on road delivery or changes to traffic conditions. Where notification is required due to a potential impact or issue, notification shall be undertaken in accordance with **Table 4** below.

#### Table 4 Notification of Potential Impact or Issue

Potential Impact or Issue	Method of Contact/Consultation	Timeframe
High noise generating work	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Vibration intensive activity	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours	
		Notification on webpage to be updated for
		broader consultation no less than 48 hours prior
		to the activity
Traffic management disruption	Email, Text Message, or Letterbox drop –	Notification of immediate landowners no less
	notifying of expected commencement, duration,	than 7 days prior to the activity
	and affected hours.	



	VMS boards to be updated notifying changes to traffic patterns	Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Respite offerings	Email or phone calls will be undertaken to determine whether respite is required and appropriate for scheduling and duration for respite periods	Discussion with immediate landowners no less than 7 days prior to the activity
Night Works	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	Notification of immediate landowners no less than 7 days prior to the activity Notification on webpage to be updated for broader consultation no less than 48 hours prior to the activity
Emergency Event	Email, Text Message, or Letterbox drop – notifying of expected commencement, duration, and affected hours	As soon as possible





#### 4.5 Complaints Procedure

SFKC is committed to timely and effective management of enquiries and complaints relating to construction activities for the project. To this end, the following complaints procedure will be adhered to, enabling the receipt of recording the enquiries and complaints, along with the methods of response and resolution of issues raised.

4.5.1 Receiving and Recording Enquiries and Complaints

SFKC will establish a project email address and nominate a phone number for the receipt of enquiries and complaints relating to the development. The email account will be regularly updated monitored to receive and respond to customer feedback and enquiries. The phone number will be available for contact from the commencement of works. The project manager will manage the phoneline from the commencement of the project until the completion of works. Where call are received during hours of construction work (including out of hours works) all calls will be answered by the project manager. Where calls are received outside of hours of construction works the caller will be invited to leave a message. All approached from the community stakeholder will be registered in the project's Complaints Register.

SFKC will establish a Complaints Register to record all complaints and enquiries received. The Complaints Register will be maintained on a regular basis. The Complaints Register shall include the following details for all complaints and enquiries received:

- Date and time of complaint or enquiry
- Method by which the complaint or enquiry was made
- Name, address, contact telephone number of complainant (if no such details were provided, a note to that effect)
- Nature of complaint or enquiry
- Action taken in response including follow up contact with the complainant
- Any monitoring to confirm that the complainant or enquiry has been satisfactorily resolved; and
- If no action is taken, the reasons why no action was taken by you.
- 4.5.2 Responding to and Resolving Enquiries and Complaints

Where a complaint or enquiry is received, the engagement representative or project manager will attempt to provide an immediate response if possible via phone or email. Where a complaint or enquiry cannot be responded immediately, an assessment and prioritisation of resolving the enquiry will be undertaken with an aim to provide a





response within two hours during construction works and 24 hours at other times. Where a complaint or enquiry cannot be resolved by the initial or follow-up response, a written response will be provided to the complainant within 10 days.

In the event of a complaint, the engagement representative will assess whether the complaint is founded or unfounded. If necessary, the engagement representative will delegate resolution of the issue to the project manager or superintendent for action with the contractor. The engagement representative will oversee the rectification of the issue and respond to the complainant once the issue has been resolved.

In the event of an enquiry, the engagement representative or project manager will endeavour to provide an immediate response where they are in possession of the relevant information. Where more specific or detailed information is required, the engagement representative will liaise with the project manager, superintendent and/or contractor to obtain the information required to respond to the enquiry and provide the information to the enquiring party once in hand.

Where the above protocol in unsuccessful in resolving complaints, mediation may be undertaken at the discretion of SFKC to facilitate negotiations between affected parties. This shall be performed with the assistance of the project manager and potentially via an independent person (mediator) appointed by SFKC as required.

4.5.3 Unreasonable Complainant Conduct

The NSW Ombudsman provides guidelines which define unreasonable complainant conduct as:

"...any behaviour by a current or former complainant which, because of its nature or frequency, raises substantial health, safety, resource or equity issues for the parties to a complaint."

While it is not envisioned that the project will attract complainants that exhibit this behaviour, where a complainant is seen to potentially have a negative impact on the engagement representative or project team's health, safety, resourcing or equity of service, SFKC shall adhere to the procedures and practices outlined within the NSW Ombudsman's *"Managing Unreasonable Complainant Conduct Practice Manual 2<sup>nd</sup> Edition"*.





#### 5. Monitoring

Monitoring will be undertaken to measure the effectiveness of community consultation, stakeholder engagement and responses to complaints and enquiries. Opportunities for improvement will be south on a continuous basis, with an annual review by the Engagement Representative undertaken to formalise these incremental improvements.

The performance of this strategy will be monitored monthly based upon an assessment of the following data:

- Total number of monthly complaints
- Review of number of monthly complaints relating to lack of consultation/ misinformation confusion
- Review of number of monthly enquiries relating to information previously disseminated to the community through other channels
- Monthly review of enquiries or complaints of a similar nature or theme indicative of underlying systematic issues with the project or engagement strategy; and
- Response timeframes, including initial acknowledgement and the response to enquiries or remediation of issue(s).

Should updates be identified, the engagement representative shall update the document and advise the DPHI of the proposed amendments.



# Appendix O Contingency Plan



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red
Traffic Management	Plan			
Traffic Guidance Scheme (TGS)	Trigger	No observable traffic issues caused by construction traffic.	Minor inconsistencies with TGS to onsite operations (e.g. covered signs, missing signs and fallen cones).	Near miss or incident occurring regardless of/ as a result of TGS being implemented.
	Response	No response required. Continue monitoring TGS implementation under CTMP.	Traffic Controller to amend TGS on site and to keep a log of all changes.	Stop work until an investigation has been undertake into the incident. Amend the TGS to ensure that the safety of all workers and community members are addressed.
Construction Movements	Tigger	Both peak hour and daily Construction traffic volumes are in accordance with volume and time constraints as outlined within Section 2.1 and Section 2.1.4 of the CTMP.	Construction traffic volumes exceed programmed peak volumes but are within the permissible volume constraints.	<ul> <li>As for Condition Amber, plus:</li> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit a non-compliance report to government agencies and the ER.</li> <li>Stop all transportation into and out of the site.</li> </ul>
	Response	No response required.	<ul> <li>Review and investigate construction activities, and where appropriate, implement additional remediation measures such as:</li> <li>Review CTMP and update where necessary.</li> <li>Provide additional training.</li> </ul>	<ul> <li>As for Condition Amber, plus:</li> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies and the ER.</li> <li>Stop all transportation into and out of the site.</li> </ul>
Queuing	Trigger	No queuing identified.	Queuing identified within Project Site, but not on to the public road.	Queuing identified on the public road.



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red
	Response	No response required. Continue monitoring program.	Review the delivery schedule prepared by the contractor. If drivers are not following the correct schedule, then they should be provided with additional training and an extra copy of the Drivers' Code of Conduct.	<ul> <li>As with Condition Amber, plus:</li> <li>Review and investigate construction activities</li> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies</li> <li>Temporary halting of activities and resuming when conditions have improved</li> <li>Stop all transportation into and out of the Project site</li> <li>Review CTMP and update where necessary, provide additional training.</li> </ul>
Dust Generated by Traffic	Trigger	No observable dust.	Minor quantities of dust in the air and/or tracking on to the road.	Large quantities of dust in the air and/or tracking on to the road.
	Response	No response required.	<ul> <li>Review and investigate construction activities and respective control measures, where appropriate.</li> <li>Implement additional remedial measures, such as:</li> <li>Deployment of additional water sprays</li> <li>Relocation or modification of dust- generating sources</li> <li>Check condition of vibrating grids to ensure they are functioning correctly</li> <li>Temporary halting of activities and resuming when conditions have improved.</li> </ul>	<ul> <li>As with Condition Amber, plus:</li> <li>If it is concluded that construction activities were directly responsible for the exceedance, submit an incident report to government agencies and the ER.</li> <li>Implement relevant responses and undertake immediate review to avoid such occurrence in future.</li> </ul>



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red
Air Quality				
Dust Emissions	Trigger	Inspections show that there is no visible dust leaving the site.	Inspections show that there is visible dust leaving the site.	Inspections show that there is visible dust leaving the site multiple times during a day OR from multiple locations within the site.
	Response	Monitor weather conditions and stop works if dust generation is excessive. Continue implementation measures of the CAQMP.	During periods of unsuitable weather (high winds and high temperatures), avoid or minimise dust generating activities where possible, or increase frequency of dust suppression activities. Remove, suppress, stabilise or cover materials that have a potential to produce dust as soon as possible, unless being used on site. Impose 30km/h speed limits on haul routes to minimise dust generated from vehicle movements.	Where possible, locate high dust generating activities away from sensitive receivers. Record any exceptional events that cause dust and/or air emissions on or off site and note action taken to resolve situation.
Dust Complaints	Trigger	No complaints received during construction.	An air-quality related complaint is received from a nearby resident.	Further complaints are received after the additional mitigation measures have been implemented.
	Response	Continue monitoring program and implementing CAQMP.	Record all air quality related complaints, identify cause(s), take appropriate measures to reduce emissions in a timely manner and record measures taken. Make Consultation Register available to relevant authorities (Council, EPA, DPHI). Review and investigate construction activities and increase dust suppression measures (additional watering, covering stockpiles etc), where appropriate.	Provide ESR with details of construction activities undertaken on site at the time of complaint. Communicate with ESR if actions are required.



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red	
Noise and Vibration					
Noise Impacts at Sensitive Receiver	Trigger	Noise levels do not exceed noise management levels.	Noise levels exceed applicable noise management levels.	Noise levels exceed Highly Noise Affected threshold at a sensitive receiver. Noise complaints received.	
	Response	Continue implementing existing measures in accordance with the CNVMP.	Implement every practical and logical mitigation and management strategy to keep noise levels below the Highly Noise Affected (75dBA) threshold.	Implement every practical and logical mitigation and management strategy to reduced noise levels below the Highly Noise Affected threshold. If noise levels cannot be kept below the imposed restrictions, an alternative construction method or equipment will be used.	
Vibration Impacts at Sensitive Receivers	Trigger	Vibration-intensive tasks carried out beyond the equipment's recommended working distance.	Vibration intensive works undertaken within minimum working distance for the specific equipment in use.	Vibration levels exceed applicable vibration limits.	
	Response	Continue to implement existing measures in accordance with CNVMP.	Undertake vibration monitoring for the duration of the works to confirm vibration levels.	Stop work. Undertake all feasible and reasonable mitigation and management measures to ensure vibration levels are below applicable limits. If vibration levels cannot be kept below applicable limits, then a different construction method or equipment will be utilised.	
Unexpected Finds					
Unexpected Contamination Find	Trigger	No contamination uncovered during earthworks.	Areas of possible contamination uncovered during earthworks.	Areas of potentially hazardous substance identified during earthworks.	
	Response	Continue to implement existing measures in accordance with CEMP.	Implement CUFP (Appendix E of CEMP).	Implement CUFP (Appendix E of CEMP).	

**Construction Environmental Management Plan** Aldington and Abbotts Road Upgrade – Phase 1



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red
Unexpected Heritage Find	Trigger	No Aboriginal or historical artefacts found.	Unanticipated archaeological items uncovered.	Potential human remains discovered.
	Response	Continue to implement existing measures in accordance with HMP.	Implement Heritage Unexpected Finds Procedure in HMP (Appendix H).	Implement Heritage Unexpected Finds Procedure in HMP (Appendix H).
Waste Management	:			
Waste	Trigger	Inspections identified no waste from construction generated outside of dedicated bins and stockpiles.	Inspections identified minimal waste from construction generated outside of dedicated bins and stockpiles.	Inspections identified large quantities of waste from construction generated outside of dedicated bins and stockpiles. Complaints received regarding waste
				management.
	Response	Continue to implement existing measures in accordance with CWMP.	Clean up the waste immediately and dispose according to CWMP requirements. Toolbox talk with all workers to discuss waste	Clean up the waste immediately and dispose according to CWMP requirements.
			management requirements.	I oolbox talk with all workers to discuss waste management requirements.

#### Water Quality and Civil Infrastructure

Erosion	Trigger	No evidence of erosion.	Minor gully or tunnel erosions or rilling onsite. Sediment has potential to leave the site.	Significant gully or tunnel erosions present or rolling. Evidence of sediment leaving site.
	Response	Continue to implement existing measures in accordance with ESCP.	RCP Safety and Environmental Coordinator will inspect the site after every rainfall event and at least fortnightly. Construct additional erosion and sediment control works to ensure desired protection.	Suitably trained person to inspect the site. Review of erosion and sediment structures and ESCP. Remediate as soon as practical.



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red
Water Management Structures	Trigger	Water management structures have been designed, constructed and managed in accordance with the Mamre Road Precinct DCP.	Inspections identify that water management structures are in minor non-compliance with ESCP and Mamre Road Precinct DCP.	Inspections identify a failure of the water management structures (discharging outside of site of boundary and/or water quality does not meet required criteria).
	Response	Continue to implement existing measures in accordance with ESCP.	A suitably trained person to inspect the site and review adequacy of water management structures.	A suitably trained person to inspect the site. Remediate as soon as practical. Review of engineering design and ESCP.
Community	•			
Submission	Trigger	General feedback/comment (no complaint or query).	Enquiry made by formal or informal channels.	Complaint made by formal or informal channels.
	Response	Implement Communication Procedure and Protocols (CCS&CHP Appendix K).	Implement Communication Procedure and Protocols (CCS&CHP Appendix K).	Implement Communication Procedure and Protocols (CCS&CHP Appendix K).
Wildlife	•			
Biodiversity Management	Trigger	No impacts to biodiversity identified.	Minor biodiversity impacts identified on site.	Significant biodiversity impacts identified.
	Response	No response required.	Review effectiveness of management measures. Implement additional measures to manage impacts.	Stop works causing biodiversity impact. As for Condition Amber.
Wildlife Management	Trigger	Minimal occurrence of common strike species at the site.	Common strike species occur regularly at the site.	Common strike species occurring at the site in large numbers.
	Response	No response required.	Review effectiveness of management measures. Consider implementing additional measures to manage species.	As for Condition Amber.



Key Elements	Trigger/ Response	Condition Green	Condition Amber	Condition Red
Weather				
Unfavourable Weather Conditions	Trigger	Weather monitoring does not indicate any unfavourable weather conditions predicted for the Project site.	Weather monitoring indicates unfavourable weather (e.g. imminent storm, high rainfall, flood, strong wind) is forecast for the Project site.	Unfavourable weather conditions are predicted/ occurring that may result in actual or potential non-compliance with SSD CoC if controls are not adequate.
	Response	Continue to monitor weather conditions.	Communicate unfavourable weather prediction to Site Supervisor to coordinate appropriate response. Implement Condition Amber response for environmental impact of concern.	Communicate to Site Supervisor to coordinate appropriate response. Implement Condition Red response for environmental impact of concern.
Cumulative Impacts	;			
Cumulative Impacts of Multiple Construction Contractors	Trigger	Cumulative environmental impacts (e.g. dust, noise, traffic and water quality impacts) of the Project in accordance with predicted/required impacts.	Inspections, monitoring or auditing indicate cumulative environmental impacts of the Project above those predicted/required. Community enquiry made by formal or informal channels.	Inspections, monitoring or auditing indicate cumulative environmental impacts of the Project above those predicted/required. Community complaint made by formal or informal channels.
	Response	Continue implementing CEMP and sub- plans.	Coordinate construction activities with other construction contractors to avoid or minimise cumulative environmental impacts. Implement Condition Amber response for cumulative environmental impact of concern.	Coordinate construction activities with other construction contractors to avoid or minimise cumulative environmental impacts. Implement Condition Red response for cumulative environmental impact of concern.